## 2.6.1 :- All Program outcomes(PO)

Program	Program	Program outcomes	Subjects	Year
No.				
1	B.A.	1: Understand economics concepts and problems of economics, demand and supply	B.A - Economics	2019-20
		2 Knowledge of population demographic theory, poverty and unemployment and its	B.A - Economics	2019-20
		3 understanding price determinations under various market structures.	B.A - Economics	2019-20
		4: Understand factors of production determinants.	B.A - Economics	2019-20
		5 knowledge of national income accounting, inflation measures.	B.A - Economics	2019-20
		6 Understand present economic profile as an emerging economy.	B.A - Economics	2019-20
		7 knowledge of international financial intuitions functioning, its achievement and	B.A - Economics	2019-20
		8 Knowledge of theories of development and growth, macro economics policy its	B.A - Economics	2019-20
		1. Develop linguistic competence,	B.A.(English)	2019-20
		2 Knowledge of Various Genres of Literature	B.A.(English)	2019-20
		3. knowledge of Linguistics and Phonetics to enhance Communication Skills	B.A.(English)	2019-20
		4 Critical Analysis of literary Works	B.A.(English)	2019-20
		5.Develop writing skills in English	B.A.(English)	2019-20
		6. Knowledge of literary Theory and Criticism	B.A.(English)	2019-20
		Enable students to gain knowledge for Courses of Travel and Tourism, Surveyor, Geo	B.A.(Geography)	2019-20
		Students can gain knowledge and get success in UPSC and MPSC competitive	B.A.(Geography)	2019-20
		3.Students are enabled to conduct socio- economic Survey with appropriate Methods	B.A.(Geography)	2019-20

		4. Students are able to read & explain	B.A.(Geography)	2019-20
		Toposheets & IMD Weather Map.	b.A.(Geography)	2013 20
		5. Develop competence to find causes, study	B.A.(Geography)	2019-20
		the consequences and giving suggestions for	D.A.(Geography)	2013 20
		6. Gain knowledge and guide about different	B.A.(Geography)	2019-20
		tourist places with geographical, Historical,	b.A.(Geography)	2015-20
		8. Students can understand & explain the	B.A.(Geography)	2019-20
		situation of Physio-Socio-Economic aspects	B.A.(Geography)	2019-20
		9. Student can understand the Natural &	B.A.(Geography)	2019-20
		Manmade Resources and its importance for	B.A.(Geography)	2019-20
		10. Students can aware and Practice	P. A. (Coography)	2019-20
		advanced and scientific agricultural methods	B.A.(Geography)	2019-20
			D. A. (Coography)	2019-20
		11. Understand the concept of trade,	B.A.(Geography)	2019-20
		environment ,argiculture,population 12. Students can Understand and explain	D. A. /Cooperations	2010 20
		about the Origin and landforms on the earth.	B.A.(Geography)	2019-20
		-	D A / 1''' \	2040.20
		1 Development of citizenship	B.A. (politics)	2019-20
		2.Constitutional awareness	B.A. (politics)	2019-20
		3. Develop ideological base	B.A. (politics)	2019-20
		4. Develop International perspective	B.A. (politics)	2019-20
		1 Awareness of linguistic skills	B.A (Marathi)	2019-20
		2. Develop Literary Skills	B.A (Marathi)	2019-20
		Use of Marathi in Practical life as a language of communication	B.A (Marathi)	2019-20
		Exposure to different genres of Marathi     Literature	B.A (Marathi)	2019-20
		Develop Critical abilities to understand     the subItleties of language	B.A (Marathi)	2019-20
		6. Understand the scope and use of Marathi in Media, Newspapers and other Arts	B.A (Marathi)	2019-20
2	B.Com	1:Understand banks and its fuctions.	B. Com. (Banking & Economics)	2019-20
		2: Awareness about new technology	B. Com. (Banking	2019-20
i	I	implementation in banking sector.	& Economics)	<u> </u>

3: Gain knowledge about financial markets	B. Com. (Banking	2019-20
its fuctions, SBI role and controls.	& Economics)	
4: students understand money and capital	B. Com. (Banking	2019-20
market, foreign exchange markets its	& Economics)	
5: Students get knowledge about financial	B. Com. (Banking	2019-20
investment intuition especially in India.	& Economics)	
6: Understand banking regulation Act	B. Com. (Banking	2019-20
provisions and new amendments.	& Economics)	
7: Students learn loan recovery methods of	B. Com. (Banking	2019-20
loan by bank.	& Economics)	
8: Student get an idea about current	B. Com. (Banking	2019-20
scenario of Indian banking system.	& Economics)	
9 : Student know the economic concepts,	B. Com. (Banking	2019-20
demand and supply variations, objectives of	& Economics)	
10: knowledge about cost and its effects on	B. Com. (Banking	2019-20
any firm, industry and trade.	& Economics)	
11: Student learn price determinations under	B. Com. (Banking	2019-20
various market structures.	& Economics)	
12: information on how factor of	B. Com. (Banking	2019-20
production determines	& Economics)	
13: Student understand national income	B. Com. (Banking	2019-20
accounting, inflation measures.	& Economics)	
14: Student get knowledge on today's profile	B. Com. (Banking	2019-20
as an emerging economy.	& Economics)	
15: Student understand today's foreign	B. Com. (Banking	2019-20
trade and balance payment scenario.	& Economics)	
16: Student understand international	B. Com. (Banking	2019-20
financial intuitions functioning, its	& Economics)	
1: The Students are equipped with the	B.COM(commerce	2019-20
knowledge of accountancy after	)	
2:Competence of the knowledge of	B.COM(commerce	2019-20
income tax and other such lawas related	)	
3: Knowledge of the market position and	B.COM(commerce	2019-20
modern communciation skills for success	)	
4: Anaysis by using mathematical and	B.COM(commerce	2019-20
stastical tools, to undertake research in	)	
5: Knowledge of various manageral	B.COM(commerce	2019-20
aspects.	)	
6: To enhance communicative skills	B.COM(commerce	2019-20
	, , , , , , , , , , , , , , , , , , , ,	

I	1	7: Development of business skills and	B.COM(commerce	2019-20
		entrepreneurship	)	2013 20
		8:Knowledge of banking rules regulation	B.COM(commerce	2019-20
		laws and practices.	)	2013 20
		9: Understanding of the Theory and	B.COM(commerce	2019-20
		Practice of Economics and knowledge of	)	2013 20
		10- Achieve professional success thruogh	B.COM(commerce	2019-20
		communication skills	)	2013-20
3	B.Sc.	1.Theoretical and Practical skills of	B.C.S.	2019-20
3		Computer Science	D.C.3.	2013 20
	(Comp.)	2. Ability to apply knowledge of	B.C.S.	2019-20
		computing and mathematics	D.C.3.	2013-20
		3. Competence to identify formulate and	B C S	2019-20
		develop solutions to computational	D.C.3.	2013 20
		4. Ability to design implement and	B.C.S.	2019-20
		evaluate computational system to meet	D.C.3.	2013 20
		5. Abillity to use appropriate technology	B.C.S.	2019-20
		skills and tools necessary for computing	D.C.3.	2013 20
		6.Application of knowledge of	B.C.S.	2019-20
		computing and statistics appropriately	D.C.3.	2013 20
4	B.C.A.	1.Impart knowledge required for	B.C.A.	2019-20
4	B.C.A.	planning, designing and building Complex		2013 20
		2.Provide sound academic base from	B.C.A.	2019-20
		which an advanced career in Computer	5.6.,	2013 20
		3.Develop practical skills to address	B.C.A.	2019-20
		problems in computer systems and	5.6.,	2013 20
		4. Produce knowledgeable and skilled	B.C.A.	2019-20
		human resources which is employable in		
		5.Develop practical skills to address	B.C.A.	2019-20
		problems in computer systems and		
		6.Teaches professional competence in	B.C.A.	2019-20
		developing software and in its design and		
		7.Provide basic statistical knowledge	B.C.A.	2019-20
		required for computer applications		
		8. Provide sound academic base from	BBA[CA]	2019-20
		which an advanced career in Computer	` '	
		9.Conceptual grounding in computer	BBA[CA]	2019-20
		usage as well as its practical business	,	
		10.Develop students to become globally	BBA[CA]	2019-20
		competent.		
ı		competent.	1	<u> </u>

I	1	44.5	DD A [CA]	2040 20
		11.Provides practical skills to address	BBA[CA]	2019-20
		problems in computer systems and		
		12.Provide basic statistical knowledge	BBA[CA]	2019-20
		required for computer applications		
5	B.Sc.	1. The aim is to provide students with a solid	B.Sc.(Microbiology	2019-20
	(Micro)	2. The programme has a strong practical emphasis, providing students with the basic	B.Sc.(Microbiology	2019-20
		3. Deepens the student's understanding of how viruses and bacteria survive, multiply,	B.Sc.(Microbiology	2019-20
		4.To provide the appropriate environment to encourage the development of the students	B.Sc.(Microbiology	2019-20
		Develop advanced practical skills relevant to microbiology	B.Sc.(Microbiology	2019-20
		6. An understanding of laboratory based investigations in microbiology applicable to	B.Sc.(Microbiology	2019-20
		7. To increase the employability of students in various industries like food industry,	B.Sc.(Microbiology )	2019-20
		8. To increase the knowledge reagarding morphological & anatomical structure of	B.Sc.(Microbiology )	2019-20
		9.To increase the knowledge of classification system of plants according to various	B.Sc.(Microbiology )	2019-20
		develop the practical skills relevant to botany	B.Sc.(Microbiology )	2019-20
6	M.Com.	1 :Knowledge of the advances in	M.COM(commerc	2019-20
		accountancy especially in the area of	e)	
		2: To make the students acquiented with	M.COM(commerc	2019-20
		the various managerail concepts	e)	
		3. Knowledge of the research methology	M.COM(commerc	2019-20
		in order to conduct in depth study of the	e)	
		4.Exposure to current problems in	M.COM(commerc	2019-20
		busienss enviornment.So cyber law study	e)	
		5. application of the current knowledge	M.COM(commerc	2019-20
		related to income tax including excie	e)	
		6. Knowledge of the capital market	M.COM(commerc e)	2019-20
		7. Ability to verify the methods of raising	M.COM(commerc	2019-20

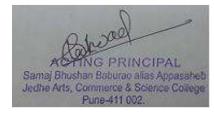
7	M.Sc.	1. Provide students with sufficiently detailed	M.Sc.(Microbiolog	2019-20
	(Micro)	information about the modern technologies	у)	
	(iviicio)	used in diagnostics and research to enable		
		them to apply these to complex problem		
		solving in the investigation of disease		
		2 December of a continuation of the color of	NA C /NA: 1:1	2040.20
		2. Develop advanced practical skills relevant	M.Sc.(Microbiolog	2019-20
		to microbiology, Interpret quantitative and	у)	
		3. To communicate ideas, principles and	M.Sc.(Microbiolog	2019-20
		theories effectively by oral, written and	у)	
		4. Apply basic statistical and numerical skills	M.Sc.(Microbiolog	2019-20
		to microbiological data. Use Information	у)	
		5. Work effectively and independently on a	M.Sc.(Microbiolog	2019-20
		given project or task. Work effectively in	y)	
		6. Students will acquire a number of	M.Sc.(Microbiolog	2019-20
		transferable skills, including: design and	y)	
		7. The final year aims to bring the student's	M.Sc.(Microbiolog	2019-20
		understanding to the forefront of selected	y)	
		8. Increase the confidence level of students	M.Sc.(Microbiolog	2019-20
		and make them a socially responsible person	y)	
		9.Get knowledge of fermentation process,	M.Sc.(Microbiolog	2019-20
		design of bioreactor & its working	y)	
		10. Get knowlege of species & species	M.Sc.(Microbiolog	2019-20
		evolution	y) `	
		11.Study how to cultivate unculturable using	M.Sc.(Microbiolog	2019-20
		various molecular methods & bioinformatics	(v)	
		12. Get knowlege of gene sequencing	M.Sc.(Microbiolog	2019-20
			v)	
		13. Study various statistical methods under	M.Sc.(Microbiolog	2019-20
		quantitative biology	y)	2013 20
		14. Study cell organization & biochemistry	M.Sc.(Microbiolog	2019-20
		11. Study cell organization a sidentellistry	y)	2013-20
		15. Get knowledge of instumentation &	M.Sc.(Microbiolog	2019-20
		molecular physics		2019-20
		16.Study microbial metabolism &	y) M.Sc.(Microbiolog	2019-20
		bioenergetics	_	2013-20
			y)	2010 20
		17. Get practical knowledge of enzymology &		2019-20
		microbial metabolism	y)	2046.25
		18. Get knowledge of pharmaceutical &	M.Sc.(Microbiolog	2019-20
	l	medical microbiology	(y)	

	19. Get knowlege of molecular biology	M.Sc.(Microbiolog	2019-20
	20. Get knowlege of microbial technology	y) M.Sc.(Microbiolog	2019-20
		y)	

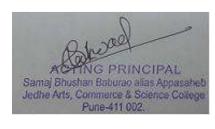
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## 2.6.1 :- Courses outcomes for All Courses

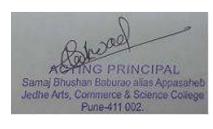
اما	Program	CourseC	CourseName	Courses outcomes
Id		ode		
	B.Com	2237	Cost and Works	1.Students got the knowledge about basic Cost
1			Accounting	concepts.
	B.Com	2237	Cost and Works	2.Students got the knowledge of Elements of cost.
2			Accounting	
	B.Com	2237	Cost and Works	3. Students Understood the Ascertainment of
3			Accounting	Material and Labour Cost.
	B.Com	3257	Cost and Works	1. We have enculcated the knowledge of
			Accounting II	determination of cost and control of cost. This is
				the important factor as all sectors in the business
4				i.e. service and industry have to work on costing
	B.Com	3237	Cost and Works	1.Students got the knowledge about the concepts
5			Accounting III	and principle application of overheads.
	B.Com	3237	Cost and Works	2.Students can also Understood various methods
6	D.COIII	3237	Accounting III	of costing and their applications.
	B.Com	1113	Compulsary English	1.Students got good pieces of prose and poetry so
			200	that they realize the beauty and communicative
7				power of English.
	B.Com	1113	Compulsary English	2.Students got an exposure to native, cultural
				experiences and situations so that they Understood
				the importance and utility of English language.
8				, , , ,
	B.Com	1113	Compulsary English	3.Students got an overall linguistic competence
9				and communicative skills.
	B.Com	1113	Compulsary English	4.Students are developed in oral and written
				communicative skills, so that their employability
				enhances and English becomes the medium of
10				their livelihood and personality.
10	B.Com	1123	Financial Accounting	Students gain the knowledge of various
11	b.com	11123	i manciai Accounting	accounting concepts.
	B.Com	1123	Financial Accounting	2. Students got the knowledge of accounting
				procedures, methods and techniques used in
12				accounting.
	B.Com	1123	Financial Accounting	3.Students learned basic accounting knowledge.
13				
	B.Com	1123	Financial Accounting	4.The students gain knowledge about the practical
				application of financial transactions in various types
14				of organisation.
4.5	B.Com	1133	Business Economics	1. Students Understood the behavior of the
15	1	1	(Micro)	economy as a whole .
16	B.Com	1133	Business Economics	2.The relationship among broad aggregates are
10	D. Com	1122	(Micro)	understood by the students.
17	B.Com	1133	Business Economics	3.students gain knowledg to apply economic
1,	B.Com	1143	(Micro) Business Mathematics	reasoning to problems of the economy.  1.Students Understood the concept and techniques
	D.COIII	1143	and Statistics	of different types of index numbers.
18			מווע אנמנואנוכא	or unrecent types or muex numbers.



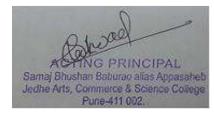
	B.Com	1143	Business Mathematics	2.Enabledd the students to solve LPP to maximize
19	B.COIII	1145		
13	B.Com	1143	and Statistics Business Mathematics	the profit and to minimize the cost.  3. Students have understood the useful functions
20	B.Com	1143	and Statistics	in business.
	B.Com	1143	Business Mathematics	4.Students are able to Understood the concept of
21	B.Com	11143	and Statistics	population and sample.
	B.Com	1143	Business Mathematics	5.Students underestand the use frequency
22	B.COIII	1143	and Statistics	distribution to Made decision.
	B.Com	1143	Business Mathematics	6.Students are able to calculate various types of
23	B.Com	1143	and Statistics	averages and variation.
	B.Com	1143	Business Mathematics	7.Applications of matrices in business are learned
24	B.COIII	11143	and Statistics	by the students.
	B.Com	1143	Business Mathematics	8.Students are able to use the concept of EMI.
25	B.COIII	11143	and Statistics	obstauchts are able to use the concept of Livin.
	B.Com	1143	Business Mathematics	9. Regression analysis to estimate the relationship
	B.COIII	11173	and Statistics	between two variables is learned by the students.
26			and Statistics	between two variables is learned by the students.
	B.Com	1313	Commercial Geography	1.Students Understood the scope and content of
			and the second second	commercial g eography in relation to spatial
				distribution of agr iculture, forest resources and
27				lindustrial production
	B.Com	1313	Commercial Geography	Acquainted the students about dynamic aspects
28			and the second second	of commercial geography.
	B.Com	1313	Commercial Geography	3.Knowledge about dynamic nature and industrial
29			and the second second	field
	B.Com	1313	Commercial Geography	4. Awareness about the relationship between the
				geographical factors and economic activities
30				
	B.Com	1343	Banking and Finance	5.To acquaint the students with the fundamentals
31			_	of banking.
	B.Com	1343	Banking and Finance	6.Developed the capability of students for knowing
32				banking concepts and operations.
	B.Com	1343	Banking and Finance	7.Enlightened the students regarding the new
33				concepts introduced in the banking system.
	B.Com	1343	Banking and Finance	8.Gain a thorough knowledge of banking
34				operations.
	B.Com	1343	Banking and Finance	9. The students are made aware of banking business
35				and practices.
	B.Com	1233	Business Environment and	1. Created entrepreneurial awareness among
36			Enterpreneurship	students.
	B.Com	1233		2. Students are motivated to prepare their mind
27			Enterpreneurship	set for taking up entrepreneurship as career.
37				
20	B.Com	1233		3. Awareness about the Business Environment.
38			Enterpreneurship	
	B.Com	1243	Insurance and Transport	1.Introduction to the concepts of Life & General
20				Insurance, Transport, Travel and Tourism.
39		10:5		
	B.Com	1243	Insurance and Transport	2. Awareness about the careers in the field of
40				Insurance, Transport & Tourism appropriate skills.
40	D.C.	4543	Addition to the	4 Developed confidence in the
41	B.Com	1513	Additional English	1. Developed confidence to speak fluent English.
41	D. Corre	4543	Additional Facility	2 Developed the skiller and a state of the skiller and the ski
42	B.Com	1513	Additional English	2.Developed the ability among students to use
42	<u>J</u>			English language.



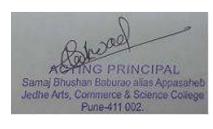
43	B.Com	1513	Additional English	3.Initiated students into the Joy of Reading literary texts.
44	B.Com	2117	Business Communication	1: Inculcated the knowledge of communication skills essential for success in service and industrail sector both in the modern business world for successful business quick and effective communciation has gathered much importance.
45	B.Com	2127	Corporate Accounting	2. Enabledd the students to develop awareness about Corporate Accounting in conformity with the provisions of Companies Act and Accounting as per Indian Accounting Standards.
46	B.Com	2127	Corporate Accounting	3.Awareness about the conceptual aspect of corporate accounting.
47	B.Com	2127	Corporate Accounting	4.Enabledd the students to develop awareness about Mergers and Acquisition.
48	B.Com	2137	Business Economics (Macro)	Exposure to basic Micro Economic concepts and inculcate an analytical approach to the subject matter.
49	B.Com	2137	Business Economics (Macro)	Stimulated the students interest by showing the relevance and use of various economic theories.
50	B.Com	2137	Business Economics (Macro)	3. Application of economic reasoning to problems of business .
51	B.Com	2147	Business Management	1.Provision of basic knowledge & Understooding about business management concept.
52	B.Com	2147	Business Management	2.Understood the various functions of management
53	B.Com	2257	Banking and Finance Paper I	1.Awareness among the students of Indian banking system.
54	B.Com	2257	Banking and Finance Paper I	2.Enabledd students to Understood the reforms and other developments in the Indian banking.
55	B.Com	2257	Banking and Finance Paper I	3. Provision of insight into the functions and role of Reserve Bank of India.
56	B.Com	3117	Business Regulatory Framework (M Law)	Acquaint with the basic concepts, terms & provisions of Mercantile and Business Laws.
57	B.Com	3117	Business Regulatory Framework (M Law)	2.Awareness among the students regarding these laws affecting business, trade and commerce.
58	B.Com	2157	Elements of Company Law	1.Imparted with the knowledge of fundamentals of Company Law.
59	B.Com	2157	Elements of Company Law	Updated the knowledge of provisions of the Compan ies Act of 2013.
60	B.Com	2157		3.Apprisation of new concepts involving in company law regime.
61	B.Com	2157		4. Acquainted with the duties and responsibilities of Key Managerial Personnel.
62	B.Com	2157	Elements of Company Law	5.Tthe provisions and procedures un der company law.
63	B.Com	3127	Advanced Accounting	Acquented the basic concepts, terms &     provisions of Mercantile and Business Laws.



	D. Com	3127	Advanced Associating	2 Acquainted students with the basic concents
	B.Com	312/	Advanced Accounting	2. Acquainted students with the basic concepts,
				terms & provision 2. To develop the awareness
				among the students regarding these laws affecting
				business, trade and commerce.
64	1			
	B.Com	3127	Advanced Accounting	3: Apply the knowledge of business relating to
				accountacny and other allied subjects useful for the
65	<u> </u>			service sector.
	B.Com	3137	Indian and Global	1. Exposed students to a new approach to the study
66			Economic Development	o f the Indian
67	B.Com	3137	Indian and Global	2. the students analyzed the present phase of the
67			Economic Development	Indian Economy.
	B.Com	3137	Indian and Global	3. Enabledd students to Understood the process of
			Economic Development	integration of the Indian economy with various
68				economies of the world.
	B.Com	3137	Indian and Global	4. Acquainted students with the emerging issues in
			Economic Development	business at the international level in the light of
				policies of liberalization and globalization.
69				
	B.Com	3157	Auditing and Taxation	1. Provided adequate knowledge to the students
				about the concept and principles of Auditing.
70				
	B.Com	3157	Auditing and Taxation	2. Provided knowledge of Audit programme,
			_	checking and vouching, Verification and Valuation.
71				3,
	B.Com	3157	Auditing and Taxation	3. Awared the students about how to prepare Audit
72				Report & their Contents.
	B.Com	3157	Auditing and Taxation	4. Provided knowledge about Auditing and
				Assurance Standards, Tax Audit, and Audit of
73				computerized Systems.
	B.Com	3157	Auditing and Taxation	5.Understood the basic concept and definition of
74				Income Tax Act, 1961
	B.Com	3157	Auditing and Taxation	6.Acquired knowledge about Computation of
				Income under different heads of Income of Income
75				Tax Act.1961
	B.Com	3157	Auditing and Taxation	7.Acquired Knowledge about the submission of
		15-25		Income Tax Return, Advance Tax, Tax deducted at
				Source, Tax Collection Authorities.
76				Jource, Tax Conection Authorities.
	B.Com	3157	Auditing and Taxation	8.Prepared students Competent enough to take up
77				to employment in Tax planner.
	B.Com	3255	Banking and Finance II	1. Understood the legal aspects of Banking transact
	1			ions and its implications as Banker and Customer.
78	1			and its implications as banker and customer.
	B.Com	3255	Banking and Finance II	2. Made the Students aware of the Banking Law
79				and Practice in India
	B.Com	3255	Banking and Finance II	1.Acquainted the students with Banking Law ands
	1	3233	January and Finding II	Practice in relation to the Banking system in India
80	1			Tractice in relation to the banking system in muld
	B.Com	3257	Banking and Finance III	1.Acquainted the students with Financial Markets
81	D.COIII	3237	Danking and Finance III	and it's various segments.
<b>—</b> —	B.Com	3257	Banking and Finance III	2.Acquainted the students with Financial tools, the
	D.COIII	323/	שמוואווון מווע דווומוונפ ווו	
				students and Understooding of the operations and
82				developments in financial markets in India.
UZ				



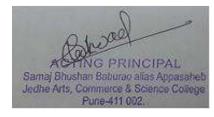
	B.Com	3257	Banking and Finance III	3 .Gave the Knowledge to the students and
	B.COIII	13237	banking and mance in	understood the scope, to Enabled them to gain an
				insight into the functioning and role of financial
83				institutions in the Indian Economy
	B.Com	2777	A Cource in	1: Incalculated the knowledge of enviornment
			Environmental Awareness	related to busienss and making them aware of
84				favourable business environment.
	B.Com	111	Compulsory English	1. Offered to the students good pieces of prose and
85+AA89				poetry so that they realize the beauty and
:E92				communicative power of English
	B.Com	111	Compulsory English	2. Exposed them to native cultural experiences
				and situations so that they Understood the
96				importance and utility of English language
86	D. Carra	111	Carranda and Frantish	2. December of consulting or intigeness and
	B.Com	111	Compulsory English	3. Developed overall linguistic competence and
87				communicative skills among the students.
	B.Com	111	Compulsory English	4. Developed oral and written communicative skills
				among the students so that their employability
				enhances and English becomes the medium of their
				livelihood and personality
88				inventiona and personality
	B.Com	112	Financial Accounting	1. Imparted the knowledge of various accounting
89				concepts.
	B.Com	112	Financial Accounting	2. Installed the knowledge about accounting
90				procedures, methods and techniques.
	B.Com	112	Financial Accounting	3. Acquainted them with practical approach to
91				accounts writing by using software package
<u> </u>	B.Com	113	Business Economics	Eexposed Students of Commerce to basic micro
	2.00		240000 20000	economic concepts and inculcate an analytical
92				approach to the subject matter.
	B.Com	113	Business Economics	2. Stimulated the student interest by showing the
				relevance and use of various economic theories.
93				
	B.Com	113	Business Economics	3. Applied economic reasoning to problems of
94		ļ		business .
0.5	B.Com	114-A	Mathematics And	1. Prepared for competitive examinations
95	D C	1444	Statistics	
96	B.Com	114-A	Mathematics And	2. Understood the concept of Simple interest,
90	D. Core	114 ^	Statistics  Mathematics And	compound interest and the concept of EMI.
97	B.Com	114-A	Mathematics And	3. Understood the concept of shares and to
<del></del>	B.Com	114-A	Statistics Mathematics And	calculate Dividend.  4. Understood the concept of population and
98	b.Com	1-14-74	Statistics	sample.
	B.Com	114-A	Mathematics And	5. Used frequency distribution to Made decision.
99			Statistics	יייי איייי איייי איייי אייייי אייייי אייייי אייייי איייייי
	B.Com	114-A	Mathematics And	6. Understood and to calculate various types of
100			Statistics	averages and variations.
	B.Com	114-A	Mathematics And	7. Understood the concept and application of
101			Statistics	profit and loss in business.
	B.Com	114-A	Mathematics And	8. Solved LPP to maximize the profit and to
102			Statistics	minimize the cost.



	B.Com	114-A	Mathematics And	9. Used correlation and regression analysis to
			Statistics	estimate the relationship between two variables.
103				, , , , , , , , , , , , , , , , , , ,
	B.Com	114-A	Mathematics And	10. Understood the concept and techniques of
104			Statistics	different types of index numbers.
	B.Com	114-A	Mathematics And	1. Applied the stastical tools and making student
105			Statistics	aware of its applications.
100	B.Com	115	Banking and Finance	1. Acquainted the students with the fundamentals
106	<u> </u>			of banking.
107	B.Com	115	Banking and Finance	2. Developed the capability of students for knowing
107	B.Com	115	Danking and Finance	banking concepts and operations.
108	B.Com	1113	Banking and Finance	3. Made the students aware of banking business
100	B.Com	115	Banking and Finance	<ul><li>and practices</li><li>4. Gave thorough knowledge of banking operations.</li></ul>
109	B.Com	1113	banking and i mance	4. Gave thorough knowledge of banking operations.
	B.Com	115	Banking and Finance	5. Enlightened the students regarding the new
110				concepts introduced in the banking system.
	B.Com	115	Commercial Geography	Understood the scope and content of
				Commercial Geography in relation to spatial
				distribution of agriculture, forest resources and
111				industrial production.
	B.Com	115 C	Commercial Geography	2. Acquainted the students about dynamic aspects
112				of Commercial Geography.
	B.Com	115 C	Commercial Geography	3. Acquainted the students about dynamic nature
113	<u> </u>			of Industrial field in India.
	B.Com	115 C	Commercial Geography	4. Made the students of commerce aware about
114				the relationship between the geographical factors
114	B.Com	116 B	Incurance And Transport	and economic activities.  1. Acquainted students with the concept of
115	B.COIII	110 B	Insurance And Transport	Insurance and Transport.
	B.Com	116 B	Insurance And Transport	Introduced the scope of Insurance including Life
	2.00	1100	modrance / ma manapare	& General Insurance and Transport including Travel
116				& Tourism.
	B.Com	116 B	Insurance And Transport	3. Made the students aware of carrier opportunities
				in the field of Insurance & Transport and Impart
117				appropriate skills.
	B.Com	116 E	Business Environment	4. Made the students aware about the Business
118			And Entrepreneurship	Environment.
110	B.Com	116 E	Business Environment	5. Created entrepreneurial awareness among
119	D. C.	4465	And Entrepreneurship	students.
120	B.Com	116 E	Business Environment	6. Motivated students lo Made their mind set for
120	B.Com	117 A	And Entrepreneurship Additional English	taking up entrepreneurship as career.  1. Exposed students to a good blend of old and new
	B.COIII	111/ A	Auditional English	literary extracts having various themes those are
				entertaining, enlightening and informative so that
				they realize the beauty and communicative power
121				of English
	B.Com	117 A	Additional English	Made students aware of the cultural values and
				the major problems in the world today
122				,
	B.Com	117 A	Additional English	3. Developed literary sensibilities and
123				communicative abilities among the students
	B.Com	2113	Business Communication	1.Every student to update their knowdlge about
134				communication development in business.
124				



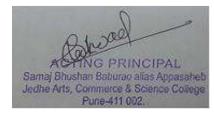
	D. Com	12442	Duning and Communication	2 From affects back and made to avaid a sure and
125	B.Com	2113	Business Communication	2.Every efforts hasbeen made to avoide errors and
123	D. C	2442	Desire de Communication	omissions in communication skills.
126	B.Com	2113	Business Communication	3.Every student may be avoided mistake and errors
120	D. C	2113	Desire de Communication	in communication.
127	B.Com	2113	Business Communication	4.Every student made efforts hasbeen made to
127	B.Com	2123	Cornerate Assessating	provide the best communication skills.
	B.Com	2123	Corporate Accounting	1.Enabledd the students to develop awareness
				abou t Corporate Accounting in conformity with the
				provisions of Companies Act and Accounting as per
128				Indian Accounting Standards.
120	B.Com	2123	Corporate Accounting	2.Made aware the students about the conceptual
129	B.COIII	2123	Corporate Accounting	asp ect of corporate accounting
	B.Com	2123	Corporate Accounting	3.Enabledd the students to develop skills for
130	B.COIII	2123	Corporate Accounting	Comput erized Accounting
	B.Com	2123	Corporate Accounting	4.Enabled the students to develop skills about acco
131	B.COIII	2123	corporate Accounting	unting standards
	B.Com	2133	Business Economics	1. The objective of the course is to familiarize the s
	15.00111		(Macro)	tudents the basic concept of Macro Economics and
132			(iviacio)	application.
	B.Com	2133	Business Economics	2. Study the behavior of the economy as a whole.
133			(Macro)	
	B.Com	2133	Business Economics	3. Study the relationship among broad aggregates.
134			(Macro)	
	B.Com	2133	Business Economics	4.apply economic reasoning to problems of the
135			(Macro)	econ omy
	B.Com	2133	Business Economics	5. For Imparting the knowledge of economics to the
			(Macro)	commerece student to Understood the market
				position and related economical enviornment in the
				country and at global level.
136				
	B.Com	2143	Business Management	1: For made student aware of various streams in
				management, such as human resource
				management, Financial management and such
137				other relevant managerail filed.
	B.Com	2143	Business Management	2.Acquaint the students with the basic concept s,
				principles and functions of management.
138				
420	B.Com	2143	Business Management	3. Made students aware about the recent trends in
139	<del> </del>	1		management.
140	B.Com	2223	Banking and Finance I	1.Provide students insight into the functions and
140	D. Carri	2222	Danking and Fig. 1	role of Reserve Bank of India
141	B.Com	2223	Banking and Finance I	2.Create the awareness among the students of
141	D Corre	12222	Danking and Circuit	India n banking system.
	B.Com	2223	Banking and Finance I	3.Enabledd students to Understood the reforms
142				and o ther developments in the Indian Banking
	B.Com	2253	Cost And Works	Impart the knowledge of Cost concepts.
143	<i>5.</i> Com	[2233	Accounting I	1. Impart the knowledge of cost concepts.
<u> </u>	B.Com	2253	Cost And Works	2.Impart the knowledge of Elements of cost
144	15.00111		Accounting I	Zimpart the knowledge of Elements of cost
	B.Com	2253	Cost And Works	3.Impart the knowledge of Recording and
145	]	1	Accounting I	Ascertaining Cost
	B.Com	2253	Cost And Works	4.Impart the knowledge of Calculation of Material
146			Accounting I	and Labour Cost
	1	•	,	10 = -0.00 d1 000 t



	B.Com	2153	Floments Of Company	1 Impart the students with basis fundamentals of
147	B.COIII	2155	Elements Of Company	1. Impart the students with basic fundamentals of
	B.Com	2153	Low Elements Of Company	Company Law.  2. Impart the students provisions and procedure s
148	B.COIII	2133	Low	under company law.
	B.Com	2153	Elements Of Company	3. Guide the students about different terminolo gies
149	D.COIII	12133	Low	in company law.
	B.Com	2153	Elements Of Company	4.Acquaint the students the duties and respons
150			Low	ibilities of Corporate Management.
	B.Com	2777	A Cource in	1.Knowledge of environment
			Environmental Awareness	
151				
	B.Com	2777	A Cource in	2.Relation between biotic & abiotic factors
			Environmental Awareness	
152				
	B.Com	2777	A Cource in	3. Natural & man made environmental problems
			Environmental Awareness	
153				
	B.Com	2777	A Cource in	4. Human behavior towards environment
			Environmental Awareness	
154				
	B.Com	2777	A Cource in	5.How to protect environment
455			Environmental Awareness	
155				
	B.Com	3113	Business Regulatory	1. For enculcating the knowledge of various
			Framework (M.Low)	business laws such as corporate law, business laws,
156				taxation laws to upkeep the students knowledge in
156	D 6	2442	D : D I.	the relevant field.
	B.Com	3113	Business Regulatory	2. Acquaint students with the basic concepts, terms
157			Framework (M.Low)	& provisions of Mercantile and Business Laws.
137	B.Com	3113	Business Regulatory	3.Develop the awareness among the students
	B.COIII	2112	Framework (M.Low)	regarding these laws affecting business, trade and
158			Framework (IVI.LOW)	1
	B.Com	3123	Advanced Accounting	commerce 1.Impart the knowledge of various accounting
159	D.COM	3123	Advanced Accounting	concep ts
	B.Com	3123	Advanced Accounting	2.Acquaint them with practical approach to
160				account s writing by using software package.
	B.Com	3123	Advanced Accounting	3.Instill the knowledge about accounting
161				procedures, methods and techniques.
	B.Com	3133	Indian and Global	1.Acquaint students with the emerging issues in po
162		<u> </u>	Economic Development	licies of India's foreign trade
	B.Com	3133	Indian and Global	2. help the students in analyzing the present status
163			Economic Development	of the Indian Economy.
	B.Com	3133	Indian and Global	3.Enabled students to Understood the process of
			Economic Development	integr ation of the Indian Economy with other
164	<u> </u>			economics of the world
4.65	B.Com	3133	Indian and Global	4.Exposed students to a new approach to the study
165		1	Economic Development	of the Indian Economy
	B.Com	3153	Auditing and Taxation	1. Created awareness amoung the students about
				auditing procedure and relevant laws for making
166				the business authentic records and practices.
100	P.Com	2152	Auditing and Tayetian	2 Understood tay laihility of individual and uniter-
	B.Com	3153	Auditing and Taxation	2.Understood tax laibility of individual and various
167				deductions and exemptions available to the assess.
107	ļ		ļ	<u>l</u>



	B.Com	3421	Banking and Finanace II	1. Banking Services had gathered much importance
	b.com	3421	banking and i manace ii	in the current global senario accordingly banking
168				business has been in the area of teaching.
	B.Com	3421	Banking and Finanace II	2.Acquaint the students with Financial Markets and
169				its various segments.
	B.Com	3421	Banking and Finanace II	3. Gave the students an Understooding of the
				operat ions and developments in financial markets
170				In India.
	B.Com	3421	Banking and Finanace II	4.Enabledd them to gain an insight into the
				function ing and role of financial institutions in the
171				India n Economy.
	B.Com	3423	Banking And Finance III	1. acquaint the students with Banking Law and
470				Practic e in relation to the Banking system in India
172	1	1		
	B.Com	3423	Banking And Finance III	2. Understood the legal aspects of Banking
172				transactio ns and its implications as Banker and
173	D. C	2422	Danking And Singara III	Customer.
174	B.Com	3423	Banking And Finance III	3. Made the Students aware of the Banking Law
1/4	B.Com	3451	Cost and Works	and Pr actice in India
	B.Com	3451		1.provide training about the concepts principles a
			Accounting II	nd application of Overheads and also
175				Understooding various methods of costing and
1,3	B.Com	3453	Cost and Works	their applications.  1.Impart knowledge regarding costing techniques.
176	b.com	3433	Accounting III	1.Impart knowledge regarding costing techniques.
	B.Com	3453	Cost and Works	2. provide training as regards concepts, procedures
	B.com	3433	Accounting III	an d legal Provisions of cost audit.
177			Accounting in	and regar rovisions of cost addit.
	B.A.	2157	Modern Banking	1. Student learned the evolution of banking Europe,
	(Economics)			USA, and Asia and in India, structure of Indian
178	(			banking.
	B.A.	2157	Modern Banking	2. Student learned the functions of commercial
179	(Economics)			bank methods of remittance,
	B.A.	2157	Modern Banking	3. Student learned the procedure for opening and
	(Economics)			operating of any account, types of bank customers,
180				type's bank account,
	B.A.	2157	Modern Banking	4. student learnedthe lending principles, credit
	(Economics)			creation and balance sheet of a bank, balance sheet
181				continent,
400	B.A.	2157	Modern Banking	5. Student learned the negotiable instruments.
182	(Economics)	104		
	B.A.	2157	Modern Banking	6.Student learned the concept of endorsement its
102	(Economics)			types, effects, new technology in banking.
183	D A	2157	Madana Bankin -	7 Childont Joannad DDI functions
	B.A.	2157	Modern Banking	7.Student learned RBI functions, money measures,
184	(Economics)			monetary policy, Co- operative bank structure and
107	B.A.	2158	Micro Economics	its challenges.  1.Student learned the concept of micro economics,
	(Economics)	12130	IVIICIO ECONOMICS	basic economic – problem, tools of analysis.
185	(ECOHOHIICS)			pasic economic – problem, tools of analysis.
	B.A.	2158	Micro Economics	2.Student learned the demand analysis, price
186	(Economics)		There is a continued	income and cross elasticity of demand.
	B.A.	2158	Micro Economics	3.Student learned indifference curve, Consumer
407	(Economics)			equilibrium.
187				



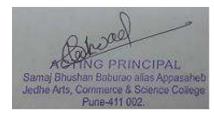
	B.A.	2158	Micro Economics	4.student learned supply analysis, production
	(Economics)		TWINE O ECONOMINES	functions theories i.e. law of variable proportion,
	(200110111103)			law of return to scale, cost concepts.
188				law of retain to scare, cost concepts.
	B.A.	2158	Micro Economics	5.Student learned revenue concepts, market
189	(Economics)			structure, and price determinations.
	B.A.	2158	Micro Economics	6. students learned theories of rate of interest,
	(Economics)			rent, and marginal productivity theory of
190				distribution, theories of profits.
	B.A.	2158	Micro Economics	7.Student learned concepts of welfare economics,
	(Economics)			social welfare function, thought of Dr. Amartya Sen
191				on welfare economics.
	B.A.	2159	Macro Economics	1.Student learned the macro economics analysis,
192	(Economics)			·
	B.A.	2159	Macro Economics	2. Student learned concepts of national income, its
	(Economics)			measurements methods, limitations, circular flow
193				of income etc.
	B.A.	2159	Macro Economics	3.Student learned consumption fuctions,
	(Economics)			investment multiplier, and principle of acceleration.
194	,			, , , ,
	B.A.	2159	Macro Economics	4. student learned the value of money, quantity
	(Economics)			theory of money, cash balance Approach, James
				Tobins Portfolio balance Approach etc.
195				pp.
	B.A.	2159	Macro Economics	5. Student learned the concept of inflation and
	(Economics)			deflation, its courses and effects, Philips Curve,
				trade cycle, its phases and measures etc.
196				, , , , , , , , , , , , , , , , , , , ,
	B.A.	2159	Macro Economics	6.Student learned the theories of output and
197	(Economics)			employment.
	B.A.	2159	Macro Economics	7. Student learned Macro economy policy, fiscal
198	(Economics)			policy its instruments and fuctions.
	B.A.	3157	Economic Development	1.Student learned the concept of growth and
199	(Economics)		and Growth	development, its indicators.
	B.A.	3157	Economic Development	2.Student learned concepts of developed,
200	(Economics)		and Growth	developing countries, its characteristics,
	B.A.	3157	Economic Development	3. Student learned constraints on development
	(Economics)		and Growth	process i.e, poverty, population explosion low
				productivity of agriculture. Socio-culture, political
201				etc.
	B.A.	3157	Economic Development	4.Student learned the value of money, quantity
	(Economics)		and Growth	theory of money, cash balance Approach, James
255				Tobins Portfolio balance Approach etc.
202	<del>                                     </del>	1		
	B.A.	3157	Economic Development	5. Student learned theories of economics
	(Economics)		and Growth	development, and approaches to economic
203		ļ		development.
	B.A.	3157	Economic Development	6. Student learned role of foreign capital, foreign
204	(Economics)		and Growth	Aid.
	B.A.	3157	Economic Development	7.Student learned Macro economy policy, fiscal
	(Economics)		and Growth	policy its instruments and fuctions, economics
205		<del> </del>		planning etc.
	B.A.	3158	International Economics	1. Student learned the international economics,
206	(Economics)	ļ		inter-regional and internal trade.
	B.A.	3158	International Economics	2.Student learned theories of international trade.
207	(Economics)	<u> </u>		320

ACTING PRINCIPAL
Samaj Bhushan Baburao alias Appasaheb
Jedhe Arts, Commerce & Science College
Pune-411 002.

	B.A.	3158	International Economics	3. Student learned gains from trade and balance of
208	(Economics)	3130	The conditional Economics	payment concept.
	B.A.	3158	International Economics	4.Student learned get the free trade policy,
209	(Economics)	3130	The conditional Economics	protection policy and exchange rates.
	B.A.	3158	International Economics	5. Student learned growth of India foreign trade its
	(Economics)	3130	The conditional Economics	composition and direction of foreign trade.
210	(Leconomics)			composition and direction of foreign trade.
	B.A.	3158	International Economics	6.Student learned Export promotion- contribution
	(Economics)	3130	The conditional Economics	of SEZ and convertibility of Indian rupee.
211	(Leconomics)			of 322 and convertibility of maidif rapec.
	B.A.	3158	International Economics	7.Student learned SAARC, BRICS, ECC etc. fuctions.
212	(Economics)	3130	The conditional Economics	7. Student rearried SAARC, BRIES, Lee etc. ractions.
	B.A.	3159	Public Finance	1.Student learned public finance, principal of
	(Economics)	3133	T done i manec	maximum social advantage principle, types of tax,
213	(LCOHOTHICS)			public expenditure etc.
	B.A.	3159	Public Finance	Student learned public expenditure its
214	(Economics)	3139	r ublic i lilalice	classifications, trends, causes and effect.
	B.A.	3159	Public Finance	3.Student learned public revenue sources,
215	(Economics)	3139	r ublic i lilalice	principles of taxations, Indian tax structure.
<del></del>	B.A.	3159	Public Finance	4. Student learned public debt sources, effects and
216		3139	r ublic i lilalice	its methods of repayment.
	(Economics) B.A.	3159	Public Finance	5.Student learned budget its types, deficit
217		3139	r ublic i lilalice	I
	(Economics) B.A.	3159	Public Finance	financing. 6.Student learned centre- state financial
218		2123	Public Fillance	
210	(Economics) B.A.	3159	Public Finance	relationship. 7. Student learned role and objectives of fiscal
219		2123	Public Fillance	
213	(Economics) B.A.	11151	Indian Economics	policy and its limitations.  1.Student learned the basic characteristics of Indian
		111131		
220	(Economics)		Envirnment	economy, comparison of Indian economy with
	B.A.	11151	Indian Economics	developed countries.  2.Student learned theory of demographic
		111131		
	(Economics)		Envirnment	transition, features of Indian of population,
221				measures for population control, population policy
	B.A.	11151	Indian Economics	onward.  3. Student learned the concept of poverty
222		11131		
	(Economics) B.A.	11151	Envirnment Indian Economics	unemployment ant its measures.  4. Student learned the Role of agriculture,
		11131		
	(Economics)		Envirnment	agriculture productivity, source of agriculture,
223				suicide of farmer's causes, special economic Zone
	B.A.	11151	Indian Economics	concept. 5. Student learned classification of labour,
	(Economics)		Envirnment	industrial dispute causes, measures for settlement.
224	(LCOHOIIICS)		Liiviiiiiieiit	inidustrial dispute causes, measures for settlement.
	B.A.	11151	Indian Economics	6. Student learned role of industrial, industrial
	(Economics)		Envirnment	policy, new economic reforms concept, IT, software
225	(Leononius)		Liiviiiiiiciit	consultancy.
	B.A.	11151	Indian Economics	7. Student learned the concept of planning types,
	(Economics)		Envirnment	objectives and 12th five year Plan and salient
	(Leononius)		Livininiciic	features of economy of Maharashtra, water
226				management concept.
	B.A.	2999	A Course in	1.Knowledge of Environment
	(Economics)	1	Environmental Awareness	
227	1,200,101,11103,			
	B.A.	2999	A Course in	2.Relation between biotic & abiotic factors
	(Economics)		Environmental Awareness	
228	1,200,101,11103,			
	•	-		



	B.A.	2999	A Course in	3.Natural & man maid environmental problems
	(Economics)	2999	Environmental Awareness	S.Natural & mail maid environmental problems
229	(Economics)		Environmental Awareness	
	B.A.	2999	A Course in	4. Human behavior towards environment
	(Economics)		Environmental Awareness	
230	(200110111103)		Ziivii oiiiii eiitai 7 twai eii ess	
	B.A.	2999	A Course in	5. How to protect environment
	(Economics)		Environmental Awareness	·
231				
	B.Com. (Eco. &	1133	Business Economics (	1. Student learned the concept of Business
	Banking)		Micro)	economics, goals of the firm and tools of analysis.
232				
1 222	B.Com. (Eco. &	1133	Business Economics (	2. Student learned the demand analysis, price
233	Banking)	1100	Micro)	income and cross elasticity of demand.
234	B.Com. (Eco. &	1133	Business Economics (	3. Student learned indifference curve, Consumer
234	Banking) B.Com. (Eco. &	1122	Micro) Business Economics (	equilibrium.  4. student learned demand estimation methods
		1133	,	
	Banking)		Micro)	and demand forecasting, production functions theories i.e. law of variable proportion, law of
				· ·
235				return to scale, internal and external economies.
	B.Com. (Eco. &	1133	Business Economics (	5. Student learned revenue concepts, market
236	Banking)		Micro)	structure, and price determinations.
	B.Com. (Eco. &	1133	Business Economics (	6. Student learned theories of rate of interest, rent,
	Banking)		Micro)	and marginal productivity theory of distribution.
237				
	,	1133	Business Economics (	7. Student learned concepts of profit and theories
238	Banking)		Micro)	of profits.
	B.Com. (Eco. &	1343	Banking & Finance	1.Student learned the evolution of banking Europe,
239	Banking)			USA, and Asia and in India, structure of Indian
239	B.Com. (Eco. &	1343	Banking & Finance	banking.  2. Student learned the functions of commercial
240	Banking)	1343	ballkilig & Fillalice	bank methods of remittance,
	B.Com. (Eco. &	1343	Banking & Finance	3.Student learned the procedure for opening and
	Banking)	10 .0	Barrang & Finance	operating of any account, types of bank customers.
241	, , , , , , , , , , , , , , , , , , ,			operating or any account, types or same customers.
	B.Com. (Eco. &	1343	Banking & Finance	4.student learned the lending principles, credit
	Banking)			creation and balance sheet of a bank, balance sheet
242				continent,
] ,,,	B.Com. (Eco. &	1343	Banking & Finance	5.Student learned the negotiable instruments.
243	Banking)			
244	B.Com. (Eco. &	1343	Banking & Finance	6.Student learned the concept of endorsement its
244	Banking)	12/12	Danking & Finance	types, effects.
245	B.Com. (Eco. &	1545	Banking & Finance	7. Student learned new technology in banking.
<del></del>	Banking) B.Com. (Eco. &	2133	Business Economics	1.Student learned concepts of national income, its
	Banking)		(Macro)	measurements methods, limitations, circular flow
246	Summe)		(1.1.4010)	of income etc.
	B.Com. (Eco. &	2133	Business Economics	2.Student learned the credit creation process and
	Banking)		(Macro)	its limitations, RBI credit control methods etc.
247			· ,	,
	B.Com. (Eco. &	2133	Business Economics	3. student learned the value of money, quantity
	Banking)		(Macro)	theory of money, cash balance Approach, James
				Tobins Portfolio balance Approach etc.
248				



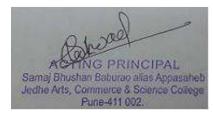
Banking)  B. Com. (Eco. & 2133 Business Economics (Macro)  B. Com. (Eco. & 2223 Banking)  B		B.Com. (Eco. &	2133	Business Economics	4. Student learned the concept of inflation and
B.Com. (Eco. & 2133 Business Economics (Macro) S.Student learned the theories of output and employment.  B.Com. (Eco. & 2133 Business Economics (Macro) (Macro) Sanking) B.Com. (Eco. & 2133 Business Economics (Macro) (Macro) (Macro) (Macro) Maximum social advantage principle, types of tax, oublic exponelliture etc. Student learned aggregative factors.  B.Com. (Eco. & 2133 Business Economics (Macro) (Macr		,	2133		-
B.Com. (Eco. & 2133   Business Economics (Macro)   T. Student learned public finance, principal of maximum social advantage principle, types of tax, public expenditure etc.   T. Student learned gargegative factors.   T. Student learned the structure and Role of Indian banking system.   S. Student learned the structure and Role of Indian banking system.   S. Student learned the Structure and Role of Indian banking system.   S. Student learned the Concept of nationalization, arguments for and against nationalization, arguments for		Dariking)		(IVIdeIO)	-
Banking   B.Com. (Eco. & 2133   Business Economics (Macro)   B.Com. (Eco. & 2133   Business Economics (Macro)   B.Com. (Eco. & 2223   Banking)   B.Com. (Eco. & 2223   Banking & Finance   I   Student learned the structure and Role of Indian banking system.   2. Student learned the Concept of nationalization, arguments for and against nationalization, arguments for and against nationalization, arguments for and against nationalization.   Student learned the SBI evolution, role, functions, and subsidiary banks to State bank of Indian Banking   B.Com. (Eco. & 2223   Banking & Finance   Student learned the SBI evolution, role, functions, and subsidiary banks to State bank of Indian Banking   Student learned the SBI evolution   State bank of Indian   Student learned the SBI evolution   State bank of Indian   Student learned the SBI evolution   State bank of Indian   Student learned the SBI evolution   State bank of Indian   Student learned the SBI evolution   State bank of Indian   Student learned the functions of State bank of Indian   Student learned the functions   State bank of Indian   Student learned   State bank of Indian   Student   State bank of Indian   Student	249				trade cycle, its priases and measures etc
Banking   B.Com. (Eco. & 2133   Business Economics (Macro)   B.Com. (Eco. & 2133   Business Economics (Macro)   B.Com. (Eco. & 2223   Banking)   B.Com. (Eco. & 2223   Banking & Finance   I   Student learned the structure and Role of Indian banking system.   2. Student learned the Concept of nationalization, arguments for and against nationalization, arguments for and against nationalization, arguments for and against nationalization.   Student learned the SBI evolution, role, functions, and subsidiary banks to State bank of Indian Banking   B.Com. (Eco. & 2223   Banking & Finance   Student learned the SBI evolution, role, functions, and subsidiary banks to State bank of Indian Banking   Student learned the SBI evolution   State bank of Indian   Student learned the SBI evolution   State bank of Indian   Student learned the SBI evolution   State bank of Indian   Student learned the SBI evolution   State bank of Indian   Student learned the SBI evolution   State bank of Indian   Student learned the functions of State bank of Indian   Student learned the functions   State bank of Indian   Student learned   State bank of Indian   Student   State bank of Indian   Student		B.Com. (Eco. &	2133	Business Economics	5.Student learned the theories of output and
B. Com. (Eco. & 2133 Business Economics (Astrodent learned public finance, principal of maximum social advantage principle, types of tax, public expenditure etc.  B. Com. (Eco. & 2133 Business Economics (Macro)  B. Com. (Eco. & 2223 Banking & Finance I Student learned aggregative factors.  B. Com. (Eco. & 2223 Banking & Finance I Student learned Private sector banks in India and foreign banks in India.  B. Com. (Eco. & 2223 Banking & Finance I Student learned the Student learned private sector banks in India and foreign banks in India.  B. Com. (Eco. & 2223 Banking & Finance I Student learned the Concept of nationalization, arguments for and against nationalizat	250	,		(Macro)	·
Banking)  B. Com. (Eco. & 2133   Business Economics   Student learned aggregative factors.    B. Com. (Eco. & 2223   Banking & Finance   Student learned aggregative factors.    B. Com. (Eco. & 2223   Banking & Finance   Student learned private sector banks in India and foreign banks in India.    B. Com. (Eco. & 2223   Banking & Finance   Student learned the Structure and Role of Indian banking system.    B. Com. (Eco. & 2223   Banking & Finance   Student learned Private sector banks in India and foreign banks in India.    B. Com. (Eco. & 2223   Banking & Finance   Student learned the Concept of nationalization, arguments for and against nationalization, solicitives and performance of NABARD. And co- operative Credit System  B. Com. (Eco. & 2223   Banking & Finance   Student learned the functions of State bank of India.  B. Com. (Eco. & 2223   Banking & Finance   T. Student learned the Banking Sector Reforms.  B. Com. (Eco. & 3133   Indian And Global   Economic Development   Indian And Global   Econo			2133		
Description		,			<b>1</b>
B.Com. (Eco. & 2133   Business Economics (Macro)   Sanking)   Sanking)   B.Com. (Eco. & 2223   Banking & Finance   Danking &	251	J - 5,			
B. Com. (Eco. & 2223   Banking & Finance		B.Com. (Eco. &	2133	Business Economics	
Banking   B.Com. (Eco. & 2223   Banking & Finance     2. Student learned Private sector banks in India and foreign banks in India.	252	Banking)		(Macro)	
B.Com. (Eco. & 2223 Banking & Finance I		B.Com. (Eco. &	2223	Banking & Finance I	1. Student learned the structure and Role of Indian
Banking) B.Com. (Eco. & 2223 Banking & Finance I Banking) B.Com. (Eco. & 2223 Banking & Finance I Banking) B.Com. (Eco. & 2223 Banking & Finance I Banking) B.Com. (Eco. & 2223 Banking & Finance I Banking) B.Com. (Eco. & 2223 Banking & Finance I Banking) B.Com. (Eco. & 2223 Banking & Finance I Banking) B.Com. (Eco. & 2223 Banking & Finance I Banking) B.Com. (Eco. & 2223 Banking & Finance I B.Com. (Eco. & 3133 Banking) B.Com. (Eco. & 3421 Banking) B.Com. (Eco. & 3421 Banking & Finanace II Banking) B.Com. (Eco. & 3421 Banking & Finanace II Banking & Finanac	253	Banking)			banking system.
B.Com. (Eco. & 2223 Banking & Finance   S. Student learned the Concept of nationalization, arguments for and against nationalization, arguments for and against nationalization.  B.Com. (Eco. & 2223 Banking & Finance   S. Student learned the SBI evolution, role, functions, and subsidiary banks to State bank of India.  B.Com. (Eco. & 2223 Banking & Finance   S. Student learned the functions, objectives and performance of NABARD. And co-operative Credit System  B.Com. (Eco. & 2223 Banking & Finance   S. Student learned the Banking Sector Reforms.  B.Com. (Eco. & 2223 Banking & Finance   S. Student learned the Banking Sector Reforms.  B.Com. (Eco. & 2223 Banking & Finance   S. Student learned the functions of RBI and changing role of RBI.  B.Com. (Eco. & 3133 Indian And Global Economic Development  B.Com. (Eco. & 3133 Indian And Global Economic Development  B.Com. (Eco. & 3133 Indian And Global Economic Development  B.Com. (Eco. & 3133 Indian And Global Economic Development  B.Com. (Eco. & 3133 Indian And Global Economic Development  B.Com. (Eco. & 3133 Indian And Global Economic Development  B.Com. (Eco. & 3133 Indian And Global Economic Development  B.Com. (Eco. & 3133 Indian And Global Economic Development  B.Com. (Eco. & 3133 Indian And Global Economic Development  B.Com. (Eco. & 3133 Indian And Global Economic Development  B.Com. (Eco. & 3133 Indian And Global Economic Development  B.Com. (Eco. & 3133 Indian And Global Economic Development  B.Com. (Eco. & 3133 Indian And Global Economic Development  B.Com. (Eco. & 3133 Indian And Global Economic Development  B.Com. (Eco. & 3133 Indian And Global Economic Development  B.Com. (Eco. & 3421 Banking & Finanace II  B.Com. (Eco.		B.Com. (Eco. &	2223	Banking & Finance I	2. Student learned Private sector banks in India and
Banking)  Banking)  Banking & Finance I  Banking & Finance II  Banking & Fina	254				foreign banks in India.
B.Com. (Eco. & 2223 Banking & Finance I Student learned the SBI evolution, role, functions, and subsidiary banks to State bank of India.  B.Com. (Eco. & 2223 Banking & Finance I Student learned the functions, objectives and performance of NABARD. And co-operative Credit System  B.Com. (Eco. & 2223 Banking & Finance I Student learned the Banking Sector Reforms.  B.Com. (Eco. & 2223 Banking & Finance I Student learned the functions of RBI and changing role of RBI.  B.Com. (Eco. & 3133 Indian And Global Economic Development Banking)  B.Com. (Eco. & 3133 Indian And Global Economic Development Economic Development Banking)  B.Com. (Eco. & 3133 Indian And Global Economic Development Banking)  B.Com. (Eco. & 3133 Indian And Global Economic Development Banking)  B.Com. (Eco. & 3133 Indian And Global Economic Development Banking)  B.Com. (Eco. & 3133 Indian And Global Economic Development Banking)  B.Com. (Eco. & 3133 Indian And Global Economic Development Banking)  B.Com. (Eco. & 3133 Indian And Global Economic Development Banking)  B.Com. (Eco. & 3133 Indian And Global Economic Development Banking)  B.Com. (Eco. & 3133 Indian And Global Economic Development Banking)  B.Com. (Eco. & 3133 Indian And Global Economic Development Banking)  B.Com. (Eco. & 3133 Indian And Global Economic Development Banking)  B.Com. (Eco. & 3133 Indian And Global Economic Development Banking)  B.Com. (Eco. & 3133 Indian And Global Economic Development Banking)  B.Com. (Eco. & 3133 Indian And Global Economic Development Banking)  B.Com. (Eco. & 3421 Banking & Finanace II Student learned the international fincial instructions i.e. IMF. World.  S.Student learned the international fincial instructions i.e. IMF. World.  S.Student learned the rupe convertibly.  B.Com. (Eco. & 3421 Banking & Finanace II Student learned the rupe of financial market, its structure, indicator and role.  B.Com. (Eco. & 3421 Banking & Finanace II Student learned depression and role.  S.Student learned depression and role.  S.Student learned the rupe of reach the basic c		B.Com. (Eco. &	2223	Banking & Finance I	3. Student learned the Concept of nationalization,
B.Com. (Eco. & 2223 Banking & Finance I		Banking)			arguments for and against nationalization.
Banking)  Banking)  Banking & Finance I  Banking & Finanace II  Banking &	255				
B.Com. (Eco. & 2223 Banking & Finance I S.Student learned the functions, objectives and performance of NABARD. And co- operative Credit System  8. Com. (Eco. & 2223 Banking & Finance I S.Student learned the Banking Sector Reforms. Banking)  8. Com. (Eco. & 2223 Banking & Finance I S.Student learned the Banking Sector Reforms. Banking)  8. Com. (Eco. & 2223 Banking & Finance I S.Student learned the functions of RBI and changing role of RBI.  8. Com. (Eco. & 3133 Indian And Global Economic Development Economic Development Banking)  8. Com. (Eco. & 3133 Indian And Global Economic Development Economic Development Banking)  8. Com. (Eco. & 3133 Indian And Global Economic Development Banking)  8. Com. (Eco. & 3133 Indian And Global Economic Development Banking)  8. Com. (Eco. & 3133 Indian And Global Economic Development Banking)  8. Com. (Eco. & 3133 Indian And Global Economic Development Banking)  8. Com. (Eco. & 3133 Indian And Global Economic Development Banking)  8. Com. (Eco. & 3133 Indian And Global Economic Development Banking)  8. Com. (Eco. & 3133 Indian And Global Economic Development Banking)  8. Com. (Eco. & 3133 Indian And Global Economic Development Banking)  8. Com. (Eco. & 3133 Indian And Global Economic Development Banking)  8. Com. (Eco. & 3133 Indian And Global Economic Development Banking)  8. Com. (Eco. & 3421 Banking & Finanace II Banking)  8. Com. (Eco. & 3421 Banking & Finanace II Banking)  8. Com. (Eco. & 3421 Banking & Finanace II Banking)  8. Com. (Eco. & 3421 Banking & Finanace II Banking)  8. Com. (Eco. & 3421 Banking & Finanace II Banking)  8. Com. (Eco. & 3421 Banking & Finanace II Banking)  8. Com. (Eco. & 3421 Banking & Finanace II Banking)  8. Com. (Eco. & 3421 Banking & Finanace II Banking)  8. Com. (Eco. & 3421 Banking & Finanace II Banking)  8. Com. (Eco. & 3421 Banking & Finanace II Banking)  8. Com. (Eco. & 3421 Banking & Finanace II Banking)  8. Com. (Eco. & 3421 Banking & Finanace II Banking)  8. Com. (Eco. & 3421 Banking & Finanace II Banking)  8. Com. (Eco. & 3421 Banking &		B.Com. (Eco. &	2223	Banking & Finance I	4. student learned the SBI evolution, role,
B.Com. (Eco. & 2223 Banking & Finance I S.Student learned the functions, objectives and performance of NABARD. And co- operative Credit System  B.Com. (Eco. & 2223 Banking & Finance I S.Student learned the Banking Sector Reforms.  B.Com. (Eco. & 2223 Banking & Finance I S.Student learned the Banking Sector Reforms.  B.Com. (Eco. & 2223 Banking & Finance I T. Student learned the functions of RBI and changing role of RBI.  B.Com. (Eco. & 3133 Indian And Global Economic Development De		Banking)			functions, and subsidiary banks to State bank of
Banking)  Bown (Eco. & 2223 Banking & Finance I	256				India.
System   Schudent learned the Banking Sector Reforms.		B.Com. (Eco. &	2223	Banking & Finance I	5.Student learned the functions, objectives and
B.Com. (Eco. & 2223 Banking & Finance I 6.Student learned the Banking Sector Reforms.  Banking)  B.Com. (Eco. & 2223 Banking & Finance I 7. Student learned the functions of RBI and changing role of RBI.  B.Com. (Eco. & 3133 Indian And Global Economic Development Development Economic Development Development Decomposition Decomposit		Banking)			performance of NABARD. And co- operative Credit
Banking   B.Com. (Eco. & 2223   Banking & Finance   T. Student learned the functions of RBI and changing role of RBI.	257				System
B.Com. (Eco. & 2223 Banking & Finance I 7. Student learned the functions of RBI and changing role of RBI.  B.Com. (Eco. & 3133 Indian And Global Economic Development Developm		B.Com. (Eco. &	2223	Banking & Finance I	6.Student learned the Banking Sector Reforms.
Banking   B.Com. (Eco. & 3133   Indian And Global   Economic Development   Economic Development   S.Com. (Eco. & 3133   Indian And Global   Economic Development   Economic Development   Causes of rural indebtness.   Student learned the concept of industrialization, role of small. And large scale industries,   S.Com. (Eco. & 3133   Indian And Global   Economic Development   Economic Development   Causes of rural indebtness.   S.Com. (Eco. & 3133   Indian And Global   Economic Development   Economic Development   Causes of rural indebtness.   S.Com. (Eco. & 3133   Indian And Global   Economic Development   Economic Development   S.Com. (Eco. & 3133   Indian And Global   Economic Development   Economic Development   S.Com. (Eco. & 3133   Indian And Global   Economic Development   Economic Development   Economic Development   S.Com. (Eco. & 3133   Indian And Global   Economic Development   Economic Development   Indian And Global   Economic Development   Economic Development   S.Com. (Eco. & 3133   Indian And Global   Economic Development   Economic Development   Indian And Global   S.Student learned the international fincial instructions i.e. IMF. World.   T.Student learned the basic characteristics of Indian economy as an emerging economy, comparison of Indian economy with developed countries   S.Com. (Eco. & 3421   Banking & Finanace II   S.Student learned the role of financial market, its structure, indicator and role.   S.Student learned money market.   S.Student learned deprecation   S.Student learned capital market   S.Student learned foregh exchange market,   S.Com. (Eco. & 3421   Banking & Finanace II   S.Student learned foregh exchange market,   S.Student learned distinguished between banking   S.Com. (Eco. & 3421   Banking & Finanace II   S.Student learned distinguished between banking   S.Student learned	258				
B.Com. (Eco. & 3133   Indian And Global   Economic Development   Student learned agriculture and its   constraints in agriculture development.    B.Com. (Eco. & 3133   Indian And Global   Economic Development   Student learned agriculture marketing problems,   causes of rural indebtness.    B.Com. (Eco. & 3133   Indian And Global   Economic Development   Student learned the concept of industrialization,   role of small. And large scale industries,   causes of rural indebtness.    B.Com. (Eco. & 3133   Indian And Global   Economic Development   Student learned the Concept of Industrialization,   role of small. And large scale industries,   causes of rural indebtness.   Causes of rural ind		B.Com. (Eco. &	2223	Banking & Finance I	7. Student learned the functions of RBI and
Banking   Economic Development   Constraints in agriculture development.	259	Banking)			changing role of RBI.
B.Com. (Eco. & 3133   Indian And Global   Economic Development   Ceo. & Sanking)   Economic Development   Sanking)   Sanking)   Economic Development   Sanking)   Economic Development   Sanking)   Sanking)   Sanking)   Sanking)   Economic Development   Sanking)   Sanking & Finanace II   Sanking & Finanace II   Sanking)   Sanking)   Sanking & Finanace II   Sa		B.Com. (Eco. &	3133	Indian And Global	1. Student learned. role of agriculture and its
Banking   Economic Development   Causes of rural indebtness.	260			Economic Development	constraints in agriculture development.
B.Com. (Eco. & 3133		B.Com. (Eco. &	3133	Indian And Global	2. Student learned agriculture marketing problems,
Banking)  B.Com. (Eco. & 3133   Indian And Global   Economic Development   Foreign capital and trade.    B.Com. (Eco. & 3133   Indian And Global   Economic Development   Foreign capital and trade.    B.Com. (Eco. & 3133   Indian And Global   Economic Development   Economic Development   Economic Development    B.Com. (Eco. & 3133   Indian And Global   Economic Development   Economic Development   Economic Development   Indian And Global   Economic Development   Economic Development   Indian And Global   Economic Development   Economic Development   Indian And Global   T.Student learned the international fincial instructions i.e. IMF. World.    B.Com. (Eco. & 3133   Indian And Global   Economic Development   Indian And Global   T.Student learned the basic characteristics of Indian economy as an emerging economy, comparison of Indian economy with developed countries    B.Com. (Eco. & 3421   Banking & Finanace II   1. Student learned the role of financial market, its structure, indicator and role.   2. Student learned money market.    Banking)   B.Com. (Eco. & 3421   Banking & Finanace II   3. Student learned capital market   4. Student learned foregh exchange market,   4. Student learned distinguished between banking   B.Com. (Eco. & 3421   Banking & Finanace II   5. Student learned distinguished between banking   B.Com. (Eco. & 3421   Banking & Finanace II   5. Student learned distinguished between banking   B.Com. (Eco. & 3421   Banking & Finanace II   5. Student learned distinguished between banking   B.Com. (Eco. & 3421   Banking & Finanace II   5. Student learned distinguished between banking   B.Com. (Eco. & 3421   Banking & Finanace II   5. Student learned distinguished between banking   B.Com. (Eco. & 3421   Banking & Finanace II   5. Student learned distinguished between banking   B.Com. (Eco. & 3421   Banking & Finanace II   5. Student learned distinguished between banking   B.Com. (Eco. & 3421   Banking   Banking   Banking   5. Student learned distinguished between banking   B.Com. (Eco. & 3421   Banki	261			Economic Development	
B.Com. (Eco. & 3133   Indian And Global   Economic Development   S.Com. (Eco. & 3133   Indian And Global   Economic Development   S.Com. (Eco. & 3133   Indian And Global   Economic Development   S.Com. (Eco. & 3133   Indian And Global   Economic Development   S.Com. (Eco. & 3133   Indian And Global   Economic Development   Indian And Global   Economic Development   S.Com. (Eco. & 3133   Indian And Global   Economic Development   T.Student learned the international fincial instructions i.e. IMF. World.   7.Student learned the basic characteristics of Indian economy as an emerging economy, comparison of Indian economy with developed countries   S.Com. (Eco. & 3421   Banking & Finanace II   S.Com. (Eco. & 3421   Ba		B.Com. (Eco. &	3133	Indian And Global	3.Student learned the concept of industrialization,
B.Com. (Eco. & 3133   Indian And Global   Economic Development   5.Student learned the HDI. Concept of LPG, role of foreign capital and trade.  B.Com. (Eco. & 3133   Indian And Global   Economic Development   5.Student learned the rupee convertibly.  B.Com. (Eco. & 3133   Indian And Global   Economic Development   5.Student learned the international fincial instructions i.e. IMF. World.  B.Com. (Eco. & 3133   Indian And Global   Economic Development   Indian And Global   Economic Development   Economic Development   Indian economy as an emerging economy, comparison of Indian economy with developed countries   1. Student learned the role of financial market, its structure, indicator and role.  B.Com. (Eco. & 3421   Banking & Finanace II   2. Student learned money market.  Banking)   B.Com. (Eco. & 3421   Banking & Finanace II   3. Student learned capital market   3. Student learned foregh exchange market,   4. Student learned distinguished between banking and non- banking financial institutions.		Banking)		Economic Development	role of small. And large scale industries,
Banking)  Banking & Finanace II  Banking)  Banking & Finanace II  Banking)  Banking & Finanace II  Banking & Finanace II  Banking)  Banking & Finanace II  Banking banking inancial institutions.	262				
B.Com. (Eco. & 3133   Indian And Global   Economic Development   Indian Economy Development   Indian Ec	262	,	3133		•
Banking)  B.Com. (Eco. & 3133   Indian And Global   Economic Development   Economic Development   Indian And Global   Economic Development   Instructions i.e. IMF. World.    B.Com. (Eco. & 3133   Indian And Global   Economic Development   Instructions i.e. IMF. World.    B.Com. (Eco. & 3133   Indian And Global   Economic Development   Indian And Global   T.Student learned the basic characteristics of Indian economy as an emerging economy, comparison of Indian economy with developed countries    B.Com. (Eco. & 3421   Banking & Finanace II   1. Student learned the role of financial market, its structure, indicator and role.    B.Com. (Eco. & 3421   Banking & Finanace II   2. Student learned money market.    Banking)   B.Com. (Eco. & 3421   Banking & Finanace II   3. Student learned capital market    Banking)   B.Com. (Eco. & 3421   Banking & Finanace II   4. student learned foregh exchange market,    Banking)   B.Com. (Eco. & 3421   Banking & Finanace II   5. Student learned distinguished between banking and non- banking financial institutions.	263				
B.Com. (Eco. & 3133	264	-	3133		5.Student learned the rupee convertibly.
Banking)  B.Com. (Eco. & 3133   Indian And Global   Economic Development   Instructions i.e. IMF. World.  7.Student learned the basic characteristics of Indian economy as an emerging economy, comparison of Indian economy with developed countries  B.Com. (Eco. & 3421   Banking & Finanace II   Student learned the role of financial market, its structure, indicator and role.  B.Com. (Eco. & 3421   Banking & Finanace II   2.Student learned money market.  Banking)  B.Com. (Eco. & 3421   Banking & Finanace II   3. Student learned capital market  Banking)  B.Com. (Eco. & 3421   Banking & Finanace II   4. student learned foregh exchange market,  Banking)  B.Com. (Eco. & 3421   Banking & Finanace II   5. Student learned distinguished between banking and non- banking financial institutions.	264				
B.Com. (Eco. & 3133   Indian And Global   Economic Development   Student learned the basic characteristics of Indian   economy as an emerging economy, comparison of Indian economy with developed countries    B.Com. (Eco. & 3421   Banking & Finanace II   1. Student learned the role of financial market, its structure, indicator and role.    B.Com. (Eco. & 3421   Banking & Finanace II   2. Student learned money market.    Banking   B.Com. (Eco. & 3421   Banking & Finanace II   3. Student learned capital market    Banking   B.Com. (Eco. & 3421   Banking & Finanace II   4. student learned foregh exchange market,    Banking   B.Com. (Eco. & 3421   Banking & Finanace II   5. Student learned distinguished between banking    B.Com. (Eco. & 3421   Banking & Finanace II   5. Student learned distinguished between banking    Banking   Banking   Banking & Finanace II   5. Student learned distinguished between banking    Banking   Banking   Banking & Finanace II   5. Student learned distinguished between banking    Banking   Banking   Banking & Finanace II   5. Student learned distinguished between banking    Banking   Banking   Banking & Finanace II   5. Student learned distinguished between banking    Banking   Banking   Banking & Finanace II   5. Student learned distinguished between banking    Banking   Banking   Banking & Finanace II   5. Student learned distinguished between banking    Banking   Banking   Banking & Finanace II   5. Student learned distinguished between banking    Banking   Banking   Banking & Finanace II   5. Student learned distinguished    Banking   Banking   Banking & Finanace II   5. Student learned distinguished    Banking   Banking   Banking & Finanace II   5. Student learned distinguished    Banking   Banking   Banking & Finanace II   5. Student learned distinguished    Banking   Banking   Banking & Finanace II   5. Student learned distinguished    Banking   Banking   Banking & Finanace II   5. Student learned distinguished    Banking   Banking   Banking & Finanace II   6. Student learned    Bank	265		3133		
Banking)  Banking)  Banking)  B.Com. (Eco. & 3421  Banking & Finanace II  B.Com. (Eco. & 3421  Banking & Finanace II  Banking & Finanace II  Banking & Finanace II  Commodition economy with developed countries  1. Student learned the role of financial market, its structure, indicator and role.  B.Com. (Eco. & 3421  Banking & Finanace II  Commodition economy as an emerging economy, comparison of Indian economy with developed countries  1. Student learned the role of financial market, its structure, indicator and role.  Commodition economy with developed countries  1. Student learned market,  Commodition economy with developed countries  1. Student learned market,  Commodition economy with developed countries  1. Student learned market,  Commodition economy with developed countries  1. Student learned market,  Commodition economy with developed countries  1. Student learned market,  Commodition economy with developed countries  1. Student learned market,  Commodition economy with developed countries  1. Student learned market,  Commodition economy with developed countries  1. Student learned market,  Commodition economy with developed countries  1. Student learned the role of financial market,  Commodition economy with developed countries	205		0405		
B.Com. (Eco. & 3421 Banking & Finanace II 1. Student learned the role of financial market, its structure, indicator and role.  B.Com. (Eco. & 3421 Banking & Finanace II 2. Student learned money market.  Banking)  B.Com. (Eco. & 3421 Banking & Finanace II 3. Student learned capital market  Banking)  B.Com. (Eco. & 3421 Banking & Finanace II 3. Student learned capital market  Banking)  B.Com. (Eco. & 3421 Banking & Finanace II 4. student learned foregh exchange market,  Banking)  B.Com. (Eco. & 3421 Banking & Finanace II 5. Student learned distinguished between banking and non- banking financial institutions.		-	3133		
B.Com. (Eco. & 3421 Banking & Finanace II 1. Student learned the role of financial market, its structure, indicator and role.  B.Com. (Eco. & 3421 Banking & Finanace II 2. Student learned money market.  Banking B.Com. (Eco. & 3421 Banking & Finanace II 3. Student learned capital market  Banking B.Com. (Eco. & 3421 Banking & Finanace II 3. Student learned foregh exchange market,  Banking Banking Banking Banking & Finanace II 5. Student learned distinguished between banking and non- banking financial institutions.		Banking)		Economic Development	
B.Com. (Eco. & 3421 Banking & Finanace II 1. Student learned the role of financial market, its structure, indicator and role.  B.Com. (Eco. & 3421 Banking & Finanace II 2. Student learned money market.  Banking B.Com. (Eco. & 3421 Banking & Finanace II 3. Student learned capital market  Banking B.Com. (Eco. & 3421 Banking & Finanace II 4. student learned foregh exchange market,  Banking Banking Banking Banking & Finanace II 5. Student learned distinguished between banking and non- banking financial institutions.	266				Indian economy with developed countries
Banking)  B.Com. (Eco. & 3421  Banking & Finanace II	200	D.C. /5. 0	2424	D 1: 0.5: "	
B.Com. (Eco. & 3421 Banking & Finanace II 2.Student learned money market.  Banking)  B.Com. (Eco. & 3421 Banking & Finanace II 3. Student learned capital market  Banking)  B.Com. (Eco. & 3421 Banking & Finanace II 4. student learned foregh exchange market,  Banking)  B.Com. (Eco. & 3421 Banking & Finanace II 4. student learned foregh exchange market,  Banking)  B.Com. (Eco. & 3421 Banking & Finanace II 5. Student learned distinguished between banking and non- banking financial institutions.	267	· ·	3421	Banking & Finanace II	
Banking)  B.Com. (Eco. & 3421 Banking & Finanace II 3. Student learned capital market  Banking)  B.Com. (Eco. & 3421 Banking & Finanace II 4. student learned foregh exchange market,  Banking)  B.Com. (Eco. & 3421 Banking & Finanace II 5. Student learned distinguished between banking and non- banking financial institutions.	207		2424	D 1: 0.5: "	
B.Com. (Eco. & 3421 Banking & Finanace II 3. Student learned capital market  Banking)  B.Com. (Eco. & 3421 Banking & Finanace II 4. student learned foregh exchange market,  Banking)  B.Com. (Eco. & 3421 Banking & Finanace II 5. Student learned distinguished between banking and non- banking financial institutions.	260	· ·	3421	Banking & Finanace II	2.Student learned money market.
269 Banking)  B.Com. (Eco. & 3421 Banking & Finanace II 4. student learned foregh exchange market,  Banking)  B.Com. (Eco. & 3421 Banking & Finanace II 5. Student learned distinguished between banking and non- banking financial institutions.	208		2424	D 1: 0.5: ::	
B.Com. (Eco. & 3421 Banking & Finanace II 4. student learned foregh exchange market,  Banking)  B.Com. (Eco. & 3421 Banking & Finanace II 5. Student learned distinguished between banking and non- banking financial institutions.	260	· ·	3421	Banking & Finanace II	3. Student learned capital market
270 Banking)  B.Com. (Eco. & 3421 Banking & Finanace II 5. Student learned distinguished between banking and non- banking financial institutions.	209		2424	Daulius 0 Fi II	A student learned for selection
B.Com. (Eco. & 3421 Banking & Finanace II 5. Student learned distinguished between banking and non- banking financial institutions.	270	· ·	3421	Banking & Finanace II	4. Student learned foregh exchange market,
Banking) and non- banking financial institutions.	270		2424	Danking C. Singer	Candon bearing a distinguished to the Co
			3421	Banking & Finanace II	
2/1	271	Banking)			and non- banking financial institutions.
	2/1	1		1	



	<del></del>	·	1	1
272	,	3421	Banking & Finanace II	6. Student will fuctions of LIC and GIC.
272	Banking)			
272	B.Com. (Eco. &	3421	Banking & Finanace II	7. Student learned the fuctions of Mudra bank.
273	Banking)			
	B.Com. (Eco. &	3423	Banking & Finanace III	1. Student learned provision relating to Banking
274	Banking)			regulation Act 1949.
	B.Com. (Eco. &	3423	Banking & Finanace III	2. Student learned Negotiable instruments
275	Banking)			Act.1881
	B.Com. (Eco. &	3423	Banking & Finanace III	3.Student learned paying bank rights and duties.
276	Banking)			
	B.Com. (Eco. &	3423	Banking & Finanace III	4.student learned collecting banking rights and
277	Banking)			duties.
	B.Com. (Eco. &	3423	Banking & Finanace III	5. Student learned Modes of creating charges.
278	Banking)	3723	banking & rinanaec in	5. Student learned Wodes of Creating charges.
	B.Com. (Eco. &	2422	Banking & Finanace III	6. Student learned types of pledge and mortgages.
279	•	3423	Balikilig & Filialiace III	o. Student learned types of pledge and mortgages.
273	Banking)	2422	Dankina C Financa III	7 Charles and the manner of the manner of
200	B.Com. (Eco. &	3423	Banking & Finanace III	7. Student learned the recovery of loan and project
280	Banking)			appraisal aspects.
	M.Com	101	Management Accounting	1.The objective of the course is to Enabled students
				t o acquire sound Knowledge of concepts, methods
				and techniques of management accounting.
281				
	M.Com	101	Management Accounting	2. Made the students develop competence with
				their usage in managerial decision making and
282				control
	M.Com	103	Advanced Accounting I	1.Lay a theoretical foundation of Accounting and A
283				ccounting Standards.
	M.Com	103	Advanced Accounting I	2.Gain ability to solve problems relating to Compa
			, tavarioca / tocoaricing i	ny Accounts, Valuations and special types of
284				
	M.Com	103	Advanced Accounting I	situations.  3.Made the students acquiented with the
	IVI.COIII	103	Advanced Accounting i	<u> </u>
285				procedure, Pratice and Regulation of Accountancy
203	11.0	404	<del></del>	4 6 : 1 1 1 5:1 : : : : : :
	M.Com	104	Income Tax II	1.Gain knowledge of the provisions of Income - tax
200				including Rules pertaining there to, relating to the
286				following topics.
	M.Com	104	Income Tax II	2.Developed ability to calculate taxable Income of '
				Individual', 'Hindu Undivided Family' and 'Firm'
287				assesses.
	M.Com	201	Financial Analysis and	1.The objective of the course is to Enabled st
			Control	udents to acquire sound knowledge of concepts,
				methods and techniques of management
288		<u></u>		accounting
	M.Com	201	Financial Analysis and	Made the students develop competence with
			Control	their usage in managerial decision making and
289				control.
	M.Com	202	Industrial Economics	1.Studied the basic concepts of Industrial
290	2 2	1		Economics .
	M.Com	202	Industrial Economics	2.Studied the significance and problems of
291		I		Industrilization.
<del>-</del>	M.Com	202	Industrial Economics	3.Studied the impact of Industrialization on Indian
292	IVI.CUIII	202	inidustrial Economics	•
	M Carr	202	Choolelined Auges 1:-	Economy.
	M.Com	203	Specialized Areas In	1.Developed competency of students to solve
			Accounting III	problems relating Special areas in accounting
202				including accounting for Services Sector.
293				



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294	M.Com	203	Specialized Areas In	2.Understood of Financial Reporting Practices.
234	NA Corre	202	Accounting III	2 students are familiarized with presenting of
295	M.Com	203	Specialized Areas In	3 students are familiarized with procedure of
233	M.Com	204	Accounting III  Business Tax assesment	accounting for Taxation.  1.Provided Understooding of Direct Taxes including
	IVI.COIII	204		
296			and Planning IV	Rules pertaining there to and their application to
	M.Com	204	Business Tax assesment	different business situations.  2. students are understood principles underlying
	IVI.COIII	204	and Planning IV	the Service Tax .
297			and Flamming IV	the service rax.
	M.Com	204	Business Tax assesment	3.Understood basic concepts of VAT, Excise Duty
		[20]	and Planning IV	an d Customs Duty
298				an a customs buty
	M.Com	301	Business Finance	1.students acquired sound knowledge of
				concepts, nature and structure of business finance.
299				
	M.Com	302	Research Methodology	1.the students are acquainted with the areas of
300			for Business	Business Research Activities.
	M.Com	302	Research Methodology	2.Enhanced capabilities of students to conduct the
			for Business	research in the field of business and social sciences.
301				
	M.Com	302	Research Methodology	3.Enabled students, in developing the most
			for Business	appropri ate methodology for their research
302				studies.
	M.Com	302	Research Methodology	4. Made them familiar with the art of using diffrent
303			for Business	research methods and techniques.
	M.Com	303	Advanced Auditing V	Imparted knowledge and develop
				Understooding of methods of auditing and their
304				application.
	M.Com	304	Specialized Areas In	1. Imparted knowledge and develop Understooding
305			Auditing VI	of methods of audit in Specialized areas.
303	NA C	404	Carattal Manufactural	4 Frankladatudantata anniba anniba anniba
	M.Com	401	Capital Market and	1. Enabled students to acquire sound knowledge,
306			Financial services	concept and structure of capital market and
300	M.Com	402	Industrial Economics	financial services.  1.Studied the basic concepts of Industrial Finance
307	IVI.COIII	402	Environment	1.Studied the basic concepts of industrial finance
	M.Com	402	Industrial Economics	2. Studied the effects of New Economic Policy.
308	141.60111	102	Environment	2. Stadied the cheets of New Economic Folley.
	M.Com	402	Industrial Economics	3. Studied the impact of Labor reforms on
309			Environment	Industries.
	M.Com	403	Recent Advances In	Up-dated the students with latest developments
			Accounting, Taxation and	in the Subject
310	<u> </u>		Auditing VII	
	M.Com	403	Recent Advances In	2. Inculcated the habit of referring to various
	1		Accounting, Taxation and	periodicals and publication s in the given subject,
	1		Auditing VII	apart from text books and reference books
311	1			·
	M.Com	403	Recent Advances In	3.Developed the ability to read, Understood,
	1		Accounting, Taxation and	interpret and summarize various articles from
312	1		Auditing VII	newspapers, journals
	M.Com	1082	Strategic Management	1: Stuents are understood Strategic management
	1			in framing the policies and administration in
212				adverse condition of the business.
313				



	M.Com	1181	Advanced accounting	1. Students acquiented with the procedure, Pratice
314	IVI.COIII	1101	Advanced accounting	and Regulation of Accountancy
	M.Com	2182	Business Tax assessment	1:Taxation procedure policies and regulations are
	IVI.COIII	2102	and planning	imporant aspect in business which is core value of
315			and planning	the subject.
	M.Com	3081	Business Finance	1: The Students are known about financial aspects
316				of the business.
	M.Com	3082	Industrial Economics	1: The Economical aspects related to industries are
				inculcated for the post graduate studnet in the
317				curriculum.
	M.Com	3181	Advanced Auditing	1: the students are known about the auditing
318				procedure and related laws.
	M.Com	4081	Capital Market and	1. Student acquiented with the capital market so
			Financial Services	that they can enculcate the knowledge of raising
319				the capital.
	M.Com	4182	Project Work	1: The Students are developed anaylitical mind in
320				the subject
224	B.A.(Geograph	110 B	Human Geomorphology	1. the students are introduced to the basic
321	y)			concepts in Geomorphology.
222	B.A.(Geograph	110 B	Human Geomorphology	2. introduced latest concept in Geomorphology
322	y)			
	B.A.(Geograph	110 B	Human Geomorphology	3.acquainted the students with the utility and
323	у)			application of Geomorphology in different regions
323	D. A. / C	110 D	Home or Colored and allow	and environment.
	B.A.(Geograph	110 B	Human Geomorphology	4. Made the students aware of the need of
324	у)			protection and conservation of different landforms
324	B.A.(Geograph	110 A	Physical Geography	1. introduced the students to the basic concepts in
325	B.A.(Geograph	IIIO A	Filysical deography	Physical Geography.
	B.A.(Geograph	110 Δ	Physical Geography	2.the students acquainted with the utility and appli
	y)		Triysical Geography	cation of Physical Geography in different areas and
326	<b>Y</b> /			environment.
	B.A.(Geograph	110 4	Physical Geography	Made the students aware of the need of
	y) `			protectio n and conservation of different
327	<b>'</b> '			landforms.
	B.A.(Geograph	2204	Geography of Natural	1.Introduced the students to the basic concepts in
328	y)		Hazards	Environmental Hazards.
	B.A.(Geograph	2204	Geography of Natural	2. The students acquainted with the utility and
	y)		Hazards	appli cation of Environmental Hazards in different
329				areas and its management.
	B.A.(Geograph	2204	Geography of Natural	3. Made the students aware of the need of
330	y)		Hazards	protectio n and disaster management.
224	B.A.(Geograph	2205	India A Geographical	1.Acquaint the students with Geography of our na
331	y) .	2225	Analysis	tion.
	B.A.(Geograph	2205	India A Geographical	2.Made the students aware of the magnitude of pr
332	у)		Analysis	oblems and prospectus at national level.
332	D A /Caa	2205	India A Casaranti-iI	2 Holood the students to the density of the
	B.A.(Geograph	2203	India A Geographical	3.Helped the students to Understood the
333	у)		Analysis	interrelationship between the subject and the
	B.A.(Geograph	2205	India A Geographical	society.  4.Helped the students to Understood the recent
334		2203	= :	trends in regional studies
<del></del>	y) B.A.(Geograph	2206	Analysis Fundamentals of	1.Enabled the students to use various Projections
335	v)	[	Geographical Analysis	and Cartographic Techniques
	B.A.(Geograph	2206	Fundamentals of	2.The students acquainted with basic of Statistical
336	v)		Geographical Analysis	data.
	.,,		1 = = 20. 000017 (1017010	0

ACTING PRINCIPAL
Samaj Bhushan Beburao alias Appasaheb
Jedhe Arts, Commerce & Science College
Pune-411 002.

	B.A.(Geograph	2206	Fundamentals of	3.Students acquainted with the principles of
	y)	2200	Geographical Analysis	surveying, its importance and utility in the
337	у)		Geographical Analysis	1
	B.A.(Geograph	3205	Geography of Travel &	geographical study.  1.Student's are acquainted basic concepts of
338	v)	3203	Turism	Geography & Tourism.
	B.A.(Geograph	3205	Geography of Travel &	2. Awareness is created among the students with
339	b.A.(Geograph	3203	Turism	the utility and application of Tourism .
- 555	B.A.(Geograph	3205	Geography of Travel &	3.Helped the students & society to Understood the
	1. ` • •	3203	- ' '	1
	у)		Turism	interrelationship between tourism and
340				employment generation opportunities.
	B.A.(Geograph	3205	Geography of Travel &	4.Understood the impact of tourism on Physical
341	y)		Turism	and Human Environments.
	B.A.(Geograph	3206	Contemporary Issues &	1.Introduced students with contemporary issues
342	y)		Geography	and its relation with Geography.
	B.A.(Geograph	3206	Contemporary Issues &	2.Created awareness and develop attitudes and
	y)		Geography	value s among the students about a range of
				geographical issues concern to people at different
343				times and places.
	B.A.(Geograph	3206	Contemporary Issues &	3.Enabled students to apply previously acquired
	y)		Geography	kno wledge and skills to suggest possible solutions
				and participate in problem-solving.
344				
	B.A.(Geograph	3204	Techniques of Spatial	1.Introduced the students with SOI toposheets and
	у)		Analysis	to acquire the knowledge of toposheet
345				reading/interpretation.
	B.A.(Geograph	3204	Techniques of Spatial	2.Students are made familiarized with the weather
	у)		Analysis	ins truments and their applications in geographical
346				phenomena.
	B.A.(Geograph	3204	Techniques of Spatial	3.The students acquaintd with IMD weather maps
	у)		Analysis	and to gain the knowledge of weather map
347				reading/interpretation.
240	B.A.(Geograph	3204	Techniques of Spatial	4. The students are trained in elementary statistics
348	у)		Analysis	a s an essential part of geography.
240	B.A.(Geograph	2208	Geography of Disaster	1.Introduced students the concept of disaster & its
349	y)		Management	relation with Geography
	B.A.(Geograph	2208	Geography of Disaster	2.The students are acquainted with the utility &
250	у)		Management	application of hazards in different areas & its
350	2.4.6	2222	0 1 151	management.
251	B.A.(Geograph	2208	Geography of Disaster	3.Made the student s aware of the need of
351	y)	2200	Management	protection & disaster management.
352	B.A.(Geograph	2209	Tourism Geography	1. Acquainted the student's basic concepts of
332	y)	2200	Tauriam Caarranku	Geography & Tourism.
353	B.A.(Geograph	2209	Tourism Geography	2.Aware the students with the utility and
H	B.A.(Geograph	2209	Tourism Geography	application of Tourism .  3.Helped students & society to understood the
		2203	Troutism deograpmy	1
354	y)			interrelationship between tourism and
<del> </del>	B.A.(Geograph	2209	Tourism Geography	employment generation opportunities.  4. Understood the impact of tourism on Physical
355	V)	[200	Tourisin Geography	and Human Environments
	B.A.(Geograph	2207	Fundamentals of	1.Enabled the students to use various projects and
356	v)	'	Geographical Analysis	Cartographic Techniques
	B.A.(Geograph	2207	Fundamentals of	2. Aquainted students with basic of Statastical data
357	V)	[	Geographical Analysis	and diagrams
	IVI		rueographical Analysis	janu uiagianis



B.A.(Geograph   2207   Fundamentals of   3. Aquainted students with principles of	surveying,
Geographical Analysis its importance and utility in the geograp	
358	
B.A.(Geograph   3208   Regional Geography of   1.Acquainted the students with geograp	hy of our
359 y) India Nation.	
B.A.(Geograph 3208 Regional Geography of 2. Made the student aware of the mag	
y) India problems and i respects at itational lev	
y) India relationship between the subject and t	ie society.
B.A.(Geograph 3208 Regional Geography of 4. Helped the students to Understood t	he recent
362 y) India trends in regional studies.	
B.A.(Geograph 3209 Agricultural Geography 1. Introduced students Agricultural act	ivities an d
363 y) its relation with Geography.	
B.A.(Geograph   3209   Agricultural Geography   2. Familiarized the students with new n	nodern tech
y) nical methods and their applications in	Agricultura I
364 activities.	
B.A.(Geograph   3209   Agricultural Geography   3. Enabled students to apply Previously	_
y) in Problems and Prospects in agricultur	e
	nochoots an
y) Analysis d to acquire the Knowledge of To posho	eet
B.A.(Geograph 3207 Techniques of Spatial 2. Familiarized the students with the w	eather ins
y) Analysis truments and their applications in Geog	
367 // phenomena.	5. a.p
B.A.(Geograph 3207 Techniques of Spatial 3. Acquainted the students with IMD w	eather maps
y) Analysis a nd to gain the knowledge of weather	map
Reading / interpretation.	
B.A.(Geograph   3207   Techniques of Spatial   4. Trained students in elementary statis	stics a s an
369 y) Analysis essential part of geography.	
B.A.(Geograph 3207 Techniques of Spatial 5. Awareness about GIS among the students and students are students as a superior of the students are superior of the st	dents.
370   y   Analysis   B.Sc   71310   physical & inorganic   1. Students have firm foundation in the	
(microbiology)   chemistry   fundamentals & applications of current	
scientific theories. 2. Balance chemical	
identify types of chemical reactions. 3.	
stoichiometric relationship involved inr	
Unerstood redox reaction & their appli	
5.Students uderstood theories of chem	
& determining the moleculer geometric	_
molecules using VSEPR theory.	es of unerent
371	
B.Sc 71320 organic & inorganic 1.Student understood the fundamental	•
(microbiology) chemistry ,which govern the structure,bonding ,p	
and reactivies of organic molecules. 2.N	
organic compounds for monofunctiona	
know the s and p block elements and the same provided that the same provided the sam	neir
B.Sc 71330 chemistry practical 1. Students were able to design ,carry of	out.record
(microbiology) and analyse the results of chemical exp	
Operatrs instrument such as melting po	
apparatus. 3. To know the proper proce	
regulation for safe handling when using	
373	

ACTING PRINCIPAL Samaj Bhushan Baburao alias Appasaheb Jedhe Arts, Commerce & Science College Pune-411 002:

	B.Sc	71420	industrial botany	1.Ecological and economics importance of plants.
	(microbiology)			2.Medicinal plants property which are use in
				industry. 3.conservation of plants. 4.Different
374				medicinal plant products and drugs use for human
3/4	B.Sc	71510	animal systematics &	heing  1. This course presents zoology as scientific
	(microbiology)	71310	diversity I & II	discipline. Students learned basic principles of
	(1111010101010101)			zoological nomenclature, taxonomy, systematics
				and basic relationship with animals. this course will
				helps students to distinguish the animals into
375				number of phylums which they seen in daily life.
3/3	B.Sc	71520	fundamentals of cell	Upon completion of this course, the student will
	(microbiology)	71320	biology & genetics	demonstrate basic knowledge in the following: a.
	(**************************************			Basic chemical composition of living matter. b.
				Structural characteristics of prokaryotic and
				eukaryotic cells. c. characteristics of the major cell
376				organells. d. Mechanics of membrane transport.
	B.Sc	71530	zoology practical	On completion of this course students will able
	(microbiology)			to Understood and identifyy different phylums and
				will also Understood about
				Paramoecium,frog,earthworm external characters
				and their systems and will also Understood the
377				genetic traits in humans and ABO blood groups in
	B.Sc	71910	introduction to	Know history of Microbiology 2. Studied
	(microbiology)		microbiology	contributions of different scientists and their
				discoveries in the field of Microbiology.3. Studied
				morphology and differentiating characteristics of
378				microorganisms. 4 Studied cytology and
	B.Sc	71920	basic techniques in	1. Understood the basic techniques in microbiology
	(microbiology)		microbiology	2- Know the cultivation procedure of different
				microorganism, 3- Got the knowledge of different
				types, parts and uses of microscope, 4- Understood
379				the different staining techniques
	B.Sc	71930	microbiology practical	1. Learned aseptic transfer techniques. 2. Learned
	(microbiology)			different methods of isolation and cultivation of
				bacteria. 3. Learned staining procedures. 4. Learned
				media preparation and cultivation of microorganisms in laboratory.
380				
	B.Sc	83011	english	1: Focused on grammar and communication skills.
381	(microbiology)			
	B.Sc	83011	english	2: Helped the students to build their vocabulary
	(microbiology)			and improve their use of English langauge.
382		2226	1. 1	
	B.Sc	83011	english	3:Develoed interviews skiils.
383	(microbiology)			
	l	I	1	



384	B.Sc (microbiology)	83011	english	4: Helped students develop their linguistic competence.
385	B.Sc (microbiology)	81311	physical and analytical chemistry	1 Students will be skilled in problem solving, critical thinking & analytical resoning as applied to scientific problems. 2 Use dimentional analysis with proper attention to units & scientific figures.
386	B.Sc (microbiology)	81321	organic & inorganic chemistry	1 Student should able to identify chiral centre of given organic compounds. 2. Determined R and S configurations. 3. Know the general principles of metallurgy. 4. Different reactions in the blast furance. 5. Know different methods for preparation of steel
387	B.Sc (microbiology)	81511	animal systematics & diversity III	1. Systematics provides identification keys, scientific names and evolutionary history of the animals which helps students to observe and study the animals which they see in daily life. This course will play very important role conservation of number of endangered, threatened species
388	B.Sc (microbiology)	81911	bacterial systematics & physiology	1 Got the knowledge of bacterial systematics 2.Got the knowledge of bacterial physiology 3. Got the knowledge of biocatalysts
389	B.Sc (microbiology)	81921	industrial & soil microbiology	1 Study of design and application of fermenter. 2 Understood Down stream processing . 3 Study of soil microflora and their interaction
390	B.Sc (microbiology)	81411	taxonomy of angiosperms & plant community	1. The student will demonstrate knowledge of plant taxa starting with bryophytes and finishing with angiosperms including their morphology and physiology. 2.Demonstrate knowledge of the structure and function of leaves, stems, and root systems in higher plants including a comparison between monocots and dicots. 3 Structure, and types of flowers and fruits, including a comparison between monocots and dicots.
391	B.Sc (microbiology)	81421	plant physiology	1.This course provide an introduction to basic principles of plant function. 2.Primarily covering physical processes in plants.  3.Metabolism, secondary products, cell physiology, and introducing principles of growth and development of plants.
392	B.Sc (microbiology)	83012	english	1: Focused on grammar and communication skills.2: Helped students build their vocabulary and improve their use of English langauge. 3:Developed interview skills. 4: Helped students to develop their linguistic competence.



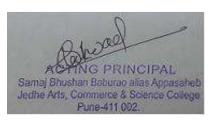
	ln c	04242	I	la contra di la
	B.Sc	81312	physical & analytical	1 Students will use the solubility product to
	(microbiology)		chemistry	determine whether a precipitate will form when
				solution are mixed & calculate equilibrium constant
				for salt. 2 Determine rate constant & half life
393				period for zero, 1st and second order reaction.
	B.Sc	81322	organic & inorganic	1 Understood concept of different reagent used in
	(microbiology)		chemistry	the reaction. 2 Students got the knowledge of
				various reactions of heterocyclic compounds. 3
				Know the posistion of d -block elements, electronic
				configuration and their properties. 4 Know the
394				toxic chemicals in the enviornment.
33.	B.Sc	81512	animal systematics &	1 Career opportunities for students- wildlife
	(microbiology)		diversity IV	biologist, conservation biologist, marine biologist,
395	(			evolutionary biologist
	B.Sc	81522	applied zoology II	1. After completion of this course students will able
	(microbiology)			to Understood and identify fisheries and fish
	]			byproduct, and this course will also help them to
				know abot agericultural pest and their
				management and control measure of pest during
396				their daily life
	B.Sc	81522	applied zoology II	2.At the end of this course students will
	(microbiology)			Understood about Apiculture and Sericulture. this
				curse help students to know process of silk
207				formation and honey and will also help to
397	D.C-	04.44.2	-lt	Understood their hyproducts
	B.Sc	81412	plant anatomy &	1. Differentiate between the basic systematic
	(microbiology)		embryology	groups of vascular plants: ferns and fern allies,
				gymnosperms, and angiosperms. 2.Understood the
				hierarchy of plant structure by learning the basic
				features of plant cells, tissues, and organs. 3.Relate
				the structure of particular types of cells and tissues
				to their functions. 4.Interpreted the basic pattern
				of plant growth from different kinds of meristems
				and understood the relationships between primary
				growth and secondary growth.
398				
	B.Sc	81422	plant biotechnology	1. explain the basics of the physiological and
	(microbiology)			molecular processes that occur during plant growth
				and development and during environmental
				adaptations 2. Understood how biotechnology has
				been used to develop knowledge of complex
				processes that occur in the plant 3. use basic
				biotechnological techniques to explore molecular
	1			biology of plants 4. explain how biotechnology is
				used for plant improvement and discuss the ethical
399				implications of that use.
	B.Sc	81912	bacterial genetics	1.Understood the molecules of bacterial heredity 2
	(microbiology)			Understood DNA replication 3 Got the knowlegde
400	(			,



	B.Sc	81922	air & water microbiology	1- Studied about air and water microflora 2-
	(microbiology)	01322	an & water microbiology	Understood effect of polluted water on human
401	(IIIICI ODIOIOGY)			-
	B.Sc	81532	zoology practical	health  1. This course actually helps to Understood the
		01332	200logy practical	1
	(microbiology)			number of systems, behaviour, interaction with
402				nature of the animals which help students in actual
402				field work
	B.Sc	81332	chemistry practical	1. Students will be able to design and carry out
	(microbiology)			scientific experiments as well as accuretly record
				result of such experiments. 2. Students learned and
				apply basic techniques used in the labouratoryfor
				preparation, purification & identification of organic
				compounds. 3. Students will correctly calculate
				reaction yield for relevant lab experiments. 4.
				I
				Students learned the labouratory skill needed to
				design, safely conduct & interpreat chemical
403				research.
	B.Sc	81932	microbiology practical	1- Understood different isolation and
	(microbiology)		57 F	characterization techniques of microorganism, 2-
	(			Understood different water testing procedures, 3-
				Got the knowledge of different growth curve
404				nhases
	B.Sc	89992	A course in environmental	1: Students got the knowledge of environment
	(microbiology)	03332	awareness	1. Stadents got the knowledge of chillionnent
405	(IIIIcrobiology)		awareness	
	B.Sc	89992	Δ course in environmental	2: Students understood the relation between biotic
	(microbiology)	03332	awareness	& abiotic factors
406	(ITHICI OBIOIOGY)		awaiciicss	a abiotic factors
	B.Sc	89992	A course in environmental	3: Students aware of Natural & man made
	(microbiology)	03332	awareness	environmental problems
407	(IIIICI ODIOIOGY)		awareness	environmental problems
	B.Sc	89992	A course in environmental	4: Students aware of Human behavior towards
	(microbiology)	03332	awareness	environment
408	(IIIICI ODIOIOGY)		awareness	chimonical
	B.Sc	89992	A course in environmental	5: Students aware of How to protect environment
	(microbiology)	03332	awareness	5. Students aware of flow to protect environment
409	(IIIIcrobiology)		awareness	
<u> </u>	B.Sc	91913	medical microbiology I	1 Understood the physiology and various systems
		71713	medicai microbiology i	1
	(microbiology)			of Human body 2. Got the knowlegde of different
				bacterial pathogens causing different infections in
	1			human body. 3. Studied funga and non fungal
410	1			pathogens of human systems
410	D.Co	01022	ganatics 0 malasulas	1 Understand DNA replication
	B.Sc	91923	genetics & molecular	1. Understood DNA replication
	(microbiology)		biology I	,transcription,translation and operons 2.
				Understood genetics of bacteriophages. 3.
	1			Understood DNA repair mechanisms. 4. Got the
111	1			knowlegde of genetics of fungi, mitosis and meosis
411		04055		
	B.Sc	91933	enzymology	1. Got the knowledge of enzymes. 2. Undewrstood
	(microbiology)			role of co factors in metabolisms. 3. Got the
	1			knowlegde of various methods of enzyme
	1			purification and metabollic regulations.
412				



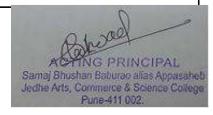
	B.Sc	91943	immunology I	1. Got the knowledge of how blood clls are formed.
	(microbiology)	31343	iiiiiidiology i	Studied the innate immunity with non specific
	(IIIICI ODIOIOGY)			defence mechanisms. 3.Studied antigens
				,antibodies and adaptive /innate immunity
413				, antibodies and adaptive / innate infinitinty
	B.Sc	91953	fermentation technology I	1- Identified the basic production methods of the
	(microbiology)			fermentation process. 2- Identified the principles of
				fermentation in food processing . 3- Understood
414				the atents and IPR
	B.Sc	91963	food & diary microbiology	1.Studied dairy development in India. 2. Study Milk
	(microbiology)			Chemistry and Constituents. 3. Studied
				Microbiology of milk and preservation methods. 4.
				Learned Food spoilage and different methods of
415				food preservation, diiferent food borne infections.
	D.C.	01014	mandinal majamahinlam. II	1 Cat the live suited as of the month areas. For twenting
	B.Sc	91914	medical microbiology II	1 Got the knowledge of chemotherapy for treating
	(microbiology)			bacterial,fungal,viral,protozoal infection and
				resistance to antibiotics. 2. Understood different
				viral pathogens with its infections .3. Understood
				the morphological ,pathological,and diagnostics
416				characters of parasites
	B.Sc	91924	genetics & molecular	1 Got the knowledge of transformation,
	(microbiology)	31324	biology II	transduction,conjugation,recombination
	(ITIICI ODIOIOGY)		biology ii	· -
				recombination mapping . 2. To Understood genetic
417				complimentation. 3. Got the knowledge of bacterial
	B.Sc	91934	metabolism	Membrane transport mechanisms 2. Understood
	(microbiology)			biosynthesis & degradation of various biomolecules
	. 677			3. Got knowledge of bacterial photosynthesis
418				,
	B.Sc	91944	immunology II	1. Got the knowledge of major histocompatibility
	(microbiology)			complex. 2. Studied immunoheamatology and
				public health immunology. 3. Got the knowledge of
				cytokines ,antigen antibody interactions
419		2.22.		
	B.Sc	91951	fermentation technology	1-Alcoholic fermentation ,2-Fermentation in food
420	(microbiology)		II	industry 3-Application of submerged and solid state
	B.Sc	91964	agricultural	fermentation.  1. Studied the aspects of Agriculture Technology 2.
		J1304	environmental	
	(microbiology)			Studied Biochemistry and production of bio-
			microbiology	fertilizers. 3. Gained knowledge about
				Bioremediation, Waste Water Treatment and
				Bioleaching. 4. Learned basics of
421				Nanobiotechnology, Microbial Biosensors and
	B.Sc	91974	microbiology practical I	1. Learned the skills related to the isolation of
	(microbiology)		(MB 347)	bacterial cultures, 2. Haematology related
			- /	
				_
422				
422			, - /	practicals like blood grouping, hemoglobin estimation. 3:Students get awared about the process regarding Epidemiological survey and the



423	B.Sc (microbiology) B.Sc (microbiology)	91974	microbiology practical I (MB 347) microbiology practical I (MB 347)	1 Students got hands on experience to detect Blood Glucose/Urea/ Protein, Albumin 2. Students came to know practically how to determine enzyme activity and enzyme purification chart 3 Practical experience of Genomic DNA and plasmid DNA isolation and DNA estimation by DPA method  1. Students Aware to do the practicals related to milk and Dairy Microbiology like FAt estimation, Mastitis and Pasteurization 2. Students practically get exposure to isolate microorganisms used in biofertilizer and improvement of soil fertility using microorganism. 3. Ethanol production using yeast and estimation of ethanol and Lactic
				acid bacteria isolation and antifungal activity. ,
424 425	Marathi	1027	F.Y.B.A Marathi G1	Create, interest, about Literature.
425	Marathi	11021 A	F.Y.B.A Marathi G1	Create, interest, about Elterature.      Aware the students about Marathi Literature,     Marathi Language and Marathi Culture.
427	Marathi	11021 A	F.Y.B.A Marathi G1 Marathi Sahitya: katha ani bhashik kaushalya Vikas	3. Developed the sense of awareness about literature amongst student
428	Marathi	11021 A	F.Y.B.A Marathi G1 Marathi Sahitya: katha ani bhashik kaushalya Vikas	4. Developed vision of literature amongst student
429	Marathi	11021 A	F.Y.B.A Marathi G1 Marathi Sahitya: katha ani bhashik kaushalya Vikas	5.Attended various trends and type of Marathi Literature.
430	Marathi	11021 A	F.Y.B.A Marathi G1 Marathi Sahitya: katha ani bhashik kaushalya Vikas	6.Developed the capacity of linguistic competence in order to confront the wor global comptition
431	Marathi	11021 A	F.Y.B.A Marathi G1 Marathi Sahitya: katha ani bhashik kaushalya Vikas	7.Explained importance of language in personality development.
432	Marathi	2027	S.Y.B.A General II	1.Introduced the student of the rules and
432	Marathi	2027	S.Y.B.A General II	regulations of the 'Shuddhalekhan'.  2. Introduced the student of the rules and regulations of the 'Shuddhalekhan'
434	Marathi	2027	S.Y.B.A General II	Explained scope of modern Marathi Literature.
435	Marathi	2027	S.Y.B.A General II	4.Discussed about story, novel, Auto-biography and biography.
436	Marathi	2027	S.Y.B.A General II	5.Explained importance of auto-biography and biography.
437	Marathi	2027	S.Y.B.A General II	6.Explained importance of auto-biography and biography.



	Marathi	2027	S.Y.B.A General II	7.create ability of appreciation, evacuation and
438				interest of literature among the students.
439	Marathi	2029	Marathi Special Paper II	1. Made student aware of the historical tradition of Marathi Literature.
	Marathi	2029	Marathi Special Paper II	2. Made student aware of Literature on the account
				of its background and inspiration behind literature
440				and to give knowledge about it's nature
	Marathi	2029	Marathi Special Paper II	3. Explore the process of development of the types
441			·	of literature.
442	Marathi	3028	Marathi Special Paper III	1. Understood the scope of literature.
443	Marathi	3028	Marathi Special Paper III	2.Understood the objects of literature.
444	Marathi	3028	Marathi Special Paper III	3. Understood the process of origin Literature.
445	Marathi	3028	Marathi Special Paper III	4. Understood the language of literature.
446	Marathi	3028	Marathi Special Paper III	5. Understood the artistic value of literature.
447	Marathi	3028	Marathi Special Paper III	6.Know the co-relation between Literature & Society
448	Marathi	3029	Marathi Special Paper IV	1. Informed the students language and its scope
110	Marathi	3029	Marathi Special Paper IV	and nature.  2. Understood various angles of study of Marathi
449		0020	панант ороска парот т	Language.
	Marathi	3029	Marathi Special Paper IV	3. Informed the students about the descriptive,
450				Historical and comparative method, scope and
450	Marathi	3029	Marathi Chasial Danar IV	difference of language.
451	Marathi	3029	Marathi Special Paper IV	4. Made aware of the students about system of Marathi Language.
	Marathi	3029	Marathi Special Paper IV	5.Study about linguistic (synchronic and
452				diachronic).
453	Marathi	3029	Marathi Special Paper IV	6.Study about linguistic (synchronic and diachronic).
454	Marathi	3029	Marathi Special Paper IV	7. Study the origin of Marathi Language.
	Marathi	3029	Marathi Special Paper IV	8.Study the age of origin and transformation of the
455				Marathi Language.
	Marathi	3029	Marathi Special Paper IV	9. Understood and study phone, phonetics,
456		1		phoneme and morphology of the Marathi Langu
	B.A. Politics	11161	Politics G1	1.Study in detail the political structure both
457				Constitutional and Administrative.
458	B.A. Politics	11161	Politics G1	2. Study the political processes and the actual
430	B.A. Politics	11161	Politics G1	functioning of the political system .  3.Critically assesses and its impact on the political
459	D.A. I OIILICS		I Ontics G1	processes.
460	B.A. Politics	11161	Politics G1	4. Comparative perspective with other developing countries.
461	B.A. Politics	2167	Politics G2	Study the concepts, ideas and theories in political theory.
	B.A. Politics	2167	Politics G2	2. Explained the evolution and usage of these
				concepts, ideas and theories with reference to
		1		individual thinkers both historically and analytically.
462		1		



	B.A. Politics	2167	Politics G2	3. The different ideological standpoints with regard
	B., t. 1 Offices	2107	T GIRRES GZ	to various concepts and theories are to be critically
463				explained with the purpose
	B.A. Politics	2167	Politics G2	4. Theory of yesteryears gains prominence in
464				contemporary political theory.
	B.A. Politics	2169	Politics Special II	1. Define the Nature and Scope of Political
465				Sociology
	B.A. Politics	2169	Politics Special II	2. Study the Intellectual Foundation of Political
466				Sociology.
467	B.A. Politics	2169	Politics Special II	3. Study the awareness of Political Culture.
468	B.A. Politics	2169	Politics Special II	4. Evalution Political Socialization.
	B.A. Politics	3169	Politics Special IV	1. The concepts and dimensions of international
				relations and Mades an analysis of different
				theories highlighting the major debates and
				differences within the different theoretical
469				naradigms
470	B.A. Politics	3169	Politics Special IV	2. Approaches to the Study of International
470			2 10 2 1 1 10 1	Relations
471	B.A. Politics	3169	Politics Special IV	3. Study the Changing Nature of the National Power
- ', -	B.A. Politics	3169	Politics Special IV	4.Study the Changing Nature of the Balance of
472	B.A. I Olitics	3103	ontics special iv	Power .
	B.A. ENGLISH	1011	Compulsory English F.Y.	Developed grammatical skills and accuracy
473				and the second of the second o
	B.A. ENGLISH	1011	Compulsory English F.Y.	2. Developed writing skills and comprehension of
474				literature
	B.A. ENGLISH	1011	Compulsory English F.Y.	3.Students are familiarized with excellent pieces of
				prose and poetry in English so that they realize the
475				beauty and communicative power of English
475				
	B.A. ENGLISH	1011	Compulsory English F.Y.	4. Students are exposed to native cultural
476				experiences and situations in order to develop
470	B.A. ENGLISH	11331	Optional English G1	human values and social awareness  1. Students are exposed to the basics of literature
477	B.A. ENGLISH	11331	Optional English G1	and language
	B.A. ENGLISH	11331	Optional English G1	2. Students are familiarized with different types of
	D., (1 211021311	11331	optional English of	literature in English, the literary devices and terms
				so that they Understood the literary merit, beauty
				and creative use of language
478				and a course acc or language
	B.A. ENGLISH	11331	Optional English G1	3. Students are made aware of the basic units of
				language so that they become aware of the
479				technical aspects and their practical usage
	B.A. ENGLISH	11331	Optional English G1	4.Students are prepared to go for detailed study
480				and Understooding of literature and language
460	D A ENGLICE	11224	Ontional English C4	C Churchanda davialana di interpreta di davia di ant
481	B.A. ENGLISH	11331	Optional English G1	5.Students developed integrated view about
401	B.A. ENGLISH	2017	Compulsory English S.Y.	language and literature in them  1.Developed competence among the students for
482	D.A. LINGLISH	2017	Compulsory English 3.1.	self-learning
	B.A. ENGLISH	2017	Compulsory English S.Y.	2. Familiarize students with excellent pieces of
	2	/		prose and poetry in English so that they realize the
				beauty and communicative power of English
483				.,



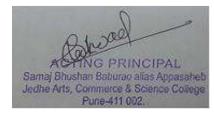
	B.A. ENGLISH	2017	Compulsory English S.Y.	3. Developed students' interest in reading literary
484	B.A. LINGLISH	2017	Compulsory English 3.1.	pieces
	B.A. ENGLISH	2017	Compulsory English S.Y.	4. Exposed them to native cultural experiences and
	D.7 (. EIVOLISIT	2017	compaisory English 3.1.	situations in order to develop human values and
485				social awareness
	B.A. ENGLISH	2017	Compulsory English S.Y.	5. Developed overall linguistic competence and
486	D.7 (. EIVOLISIT	2017	compaisory English 3.1.	communicative skills of the students
	B.A. ENGLISH	2337	Optional English G2	Students are exposed to the basics of short story
487	D., 2.1102.011	2337	optional English of	as one of the literary forms
	B.A. ENGLISH	2337	Optional English G2	2. Students are familiarized with different types of
488				short stories in English
	B.A. ENGLISH	2337	Optional English G2	3. Students are Enabledd to Understood the literary
			'	merit, beauty and creative use of language
489				The state of the s
	B.A. ENGLISH	2337	Optional English G2	4. Students acquired knowledge of some advanced
			'	units of language so that they become aware of the
				technical aspects and their practical usage
490				teerimear aspects and their practical asage
	B.A. ENGLISH	2337	Optional English G2	5. Students developed integrated view about
491			'	language and literature in them
	B.A. ENGLISH	2338	English Special I	Students are encouraged to Made a detailed
				study of a few sample masterpieces of English
				Drama from different parts of the world
492				brama nom amerene pares or the world
	B.A. ENGLISH	2338	English Special I	2. Interest is developed among the students to
493				appreciate and analyze drama independently
	B.A. ENGLISH	2338	English Special I	3. Students awareness is enhanced in the aesthetics
				of Drama and to empower them to evaluate drama
494				independently
	B.A. ENGLISH	2338	English Special I	4. Students are acquainted and familiarized the
				students with the terminology in drama criticism
				(i.e.the term used in Critical Analysis and
495				Appreciation of drama)
	B.A. ENGLISH	2339	English Special II	1.The students are familiarized with the
				terminology in poetry criticism (i.e. the terms used
				in critical analysis and appreciation of poems)
496				
	B.A. ENGLISH	2339	English Special II	2. Students are encouraged to Made a detailed
				study of a few sample masterpieces of English
497				poetry
	B.A. ENGLISH	2339	English Special II	3.Students' awareness enhanced in the aesthetics
498				of poetry
400	B.A. ENGLISH	2339	English Special II	4. Students are empowered to read and appreciate
499	<u> </u>	1		poetry as a form of literature
	B.A. ENGLISH	2339	English Special II	5. Students develop the ability to critically evaluate
500				the poetry independently
	B.A. ENGLISH	2339	English Special II	6. Students are empowered to read and appreciate
501	<u> </u>	1		poetry as a form of literature
F02	B.A. ENGLISH	2339	English Special II	7. Students developed the ability to critically
502				evaluate the poetry independently
F02	B.A. ENGLISH	3017	Compulsory English T.Y.	1. Introduced students to the best uses of language
503	<u> </u>		ļ	in literature.
F04	B.A. ENGLISH	3017	Compulsory English T.Y.	2. Familiarized students with the communicative
504				power of English
	B.A. ENGLISH	3017	Compulsory English T.Y.	3. Enabled students to become competent users
505				of English in real life situations
				0

ACTING PRINCIPAL
Samaj Bhushan Baburao alias Appasaheb
Jedhe Arts, Commerce & Science College
Pune-411 002.

F06	B.A. ENGLISH	3017	Compulsory English T.Y.	4. Exposed students to varied cultural experiences
506				through literature
	B.A. ENGLISH	3017	Compulsory English T.Y.	5. Contributed to their overall personality
F07				development by improving their communicative
507		1		and soft skills
	B.A. ENGLISH	3337	Optional English G3	1. students are made see how Indian English poetry
				expresses the ethos and culture of India
508				
F00	B.A. ENGLISH	3337	Optional English G3	2. Student Understood creative uses of language in
509				Indian English Poetry
	B.A. ENGLISH	3337	Optional English G3	3. Introduced students to some advanced areas of
510				language study
	B.A. ENGLISH	3337	Optional English G3	4. prepared students to go for detailed study and
511				Understooding of literature and language
	B.A. ENGLISH	3337	Optional English G3	5.students are exposed to some of the best samples
512				of Indian English Poetry
	B.A. ENGLISH	3338	English Special III	1. students familiarized to the basics of novel as a
513				literary form
	B.A. ENGLISH	3338	English Special III	2. students are exposed to the historical
514				development and nature of novel
	B.A. ENGLISH	3338	English Special III	3. students are made aware of different types and
515				aspects of novel
	B.A. ENGLISH	3338	English Special III	4. literary sensibility and sense of cultural diversity
516				is developed in students
	B.A. ENGLISH	3338	English Special III	5. students are exposed to some of the best
517				examples of novel
	B.A. ENGLISH	3338	English Special III	6. Developed the skills to critically examine novels
518			8 - 1	independently
	B.A. ENGLISH	3339	English Special IV	1. students made aware of selected approaches to
519				literature
	B.A. ENGLISH	3339	English Special IV	students are familiarized to the basics of literary
520				criticism
	B.A. ENGLISH	3339	English Special IV	3. students are made aware of the nature and
521	J 2.102.011			historical development of criticism
	B.A. ENGLISH	3339	English Special IV	4. students are familiarized with the significant
522	D., 2.1102.011		Zingiishi special iv	critical approaches and terms
	B.A. ENGLISH	3339	English Special IV	5. students are encouraged to interpret literary
	<i>5.7</i> % E140E1511		Zingiishi special iv	works in the light of the critical approaches
523				works in the light of the critical approaches
	B.A. ENGLISH	3339	English Special IV	6. Developed students' aptitude for critical analysis
524	D.A. LINGLISH		English Special IV	apultude for critical analysis
	B.A. ENGLISH	2999	A Course in	Student got Knowledge of environment
	D.A. LINGLISH		Environmental Awearness	1. Stadent got knowledge of environment
525			Liivii oiiiiieiitai Aweaiiiess	
	B.A. ENGLISH	2999	A Course in	Student got Knowledge of relation between
	D.A. LINGLISH	2999		
526			Environmental Awearness	DIOTIC & ADIOTIC TACTORS
320	B.A. ENGLISH	2999	A Course in	3. Natural & man made environmental problems
	D.A. ENGLIST	[2333		3. Natural & man made environmental problems
527			Environmental Awearness	
JL1	D A FNCUCU	2000	A Course in	4 Human habayiar tayyarda az iizaz zazat
	B.A. ENGLISH	2999	A Course in	4. Human behavior towards environment
528			Environmental Awearness	
328	B A ENGLISH	2000	1.0 .	E II
	B.A. ENGLISH	2999	A Course in	5. How to protect environment
F20			Environmental Awearness	
529	1	ļ	<u> </u>	0



	M.Sc	70101	MB- 501microbial	1. Student Got Knowledge of Taxonomy . 2.
530	(microbiology)	,0101	diversity & taxonomy	Understood origin, Evolution of Life and Speciation, 3. Student Got Knowledge of unculturable bacteria and various methods for its cultivation
330	M.Sc (microbiology)	70102	MB-502 quantitative biology	Student Understood introductory biostatistics. 2.     Student Got Knowlegde of descriptive statistics. 3.     Student Understood parametric and non
531				parametric tests
532	M.Sc (microbiology)	70103	MB-503 cell organization & biochemistry	1. Student Understood biochemistry of proteins and nucleic acids. 2. Student got Knowledge of ultra structure and organisation of eukaryotic cell. 3. Student understood development and differentitaition in vertebrates and invertebrate
533	M.Sc (microbiology)	70104	MB- 511 practical course 1 (microbial diversity & systematics)	1. Student developed skills of isolation and identification of eubacteria ,fungi and cyanobacteria, develop various skills in molecular taxonomy and its application in online data analysis. 2. Student got knowledge which will be applied in preparing a research paper based on sample data from the practical experiments
534	M.Sc (microbiology)	70105	MB-512 practical course II (cell biology & biochemistry))	Student developed skills in various microbiological techniques. 2. Student applied statistical Knowledge in practical data using various softwares. 3. Student developed skills in various molecular techniques
535	M.Sc (microbiology)	70201	MB- 601 instrumentation & molecular biophysics	1. STUDENT UNDERSTOOD THE TECHNIQUES LIKE CHROMATOGRAPHY ,ELECTROPHORESIS,AND CENTRIFUGATION METHODS USING BIOLOGICAL SAMPLES GET THE KNOWLEDGE OF VARIOUS TYPES OF MASS SPECTROSCOPY , THE CONCEPTS OF NANOPARTICLES AND SYNTHESIS OF NANOPARTICLES IN LABORATORY
536	M.Sc (microbiology)	70202	MB-602 virology	1. Student Understood Structure and Replication of viruses. 2. Student Understood Cultivation and Detection methods for viruses. 3. Student Understood basics of Nomenclature & Classification systems of viruses. 4. Student learned details about Viral Therapeutics and Bacteriophages
537	M.Sc (microbiology)	70204	MB-611 BIOPHYSICS & VIROLOGY	1.Student developed various skills in biophysical instrumentation. 2. Student developed various skills in virological techniques. 3. Student developed knowledge of research methodology and apply it in writing 'masters' thesis
538	M.Sc (microbiology)	70205	MB-612 ENZYMOLOGY & MICROBIAL METABOLISM	1.Student developed skill in purification & assay of enzymes     2. Student developed skills in isolation and characterization of anaerobic bacteria, microbial got knowledge of metabolism



	M.Sc	70301	MB-701 immunology	Student studied Cell surface molecules and
539	(microbiology)	70301	Wib 701 minianology	receptors. 2. Student got Knowledge of Regulation of Immune response ,Tumor Immunology ,Infection and Immunity. 3. Student studied Experimental
540	M.Sc (microbiology)	70302	MB-702 molecular biology I	1.Student studied RNA processing & mobile DNA elements. 2. Student studied fine control of prokaryotic and eukaryotic transcription. 3. Student studied proteomics & tools in molecular biology
541	M.Sc (microbiology)	70303	MB-703 industrial waste water treatment	1.Student studied basic Principles of Wastewater Treatment. 2. student learned different Pretreatment & Primary treatment process used in waste water treatment. 3. Student learned Secondary and Tertiary Treatment process. 4. Student gained Knowledge of Current industrial wastewater treatment processes and Advanced, Combined and Innovative wastewater treatment processes in detail.
542	M.Sc (microbiology)	70304	MB-711 practical course I (immunology, pharmaceutical microbiology & environmental	1.Student studied different physico chemical parameters of waste water, Understooding about cell lines, GMP in industries
543	M.Sc (microbiology)	70305	microbiology) MB- 712 practical course II (molecular biology I & II & microbial technology))	Student studied extraction and characterization of antibiotic resistant plasmid, Gene annotation ,Transformation technique.
544	M.Sc (microbiology)	70401	MB- 801 pharmaceutical & medical microbiology	1.Student studied drug Discovery and     Development, Development of Anti-infectives. 2.     Student Got Knowledge of Determinants of     Microbial Pathogenicity
545	M.Sc (microbiology)	70402	MB-802 molecular biology II	Student Understood genomics & Gene technology , Understood Applications of recombinant DNA technology – Production of Secondary Metabolites , Genetically modified animals and plants. Gene apposition.
546	M.Sc (microbiology)	70403	MB-803 microbial technology	Student studied Bioreactor design and operation , Understood Process Variables and Monitoring , Got Knowledge of Microbial Processes and
547	M.Sc (microbiology)	70404	MB-811 dissertation I	Intellectual property rights co 1 to Understood the research problem co2 to Understood Analytical and reasoning abilities of the student for interpretation of data,co 3 to increase the confidence of student regarding presentation of the research
548	M.Sc (microbiology)	70203	MB- 603 microbial metabolism	<ol> <li>Student Understood Enzyme Kinetics         ,Bioenergetics &amp; Aerobic and anaerobic respiration.     </li> <li>Student got Knowledge of Membrane Transport.</li> <li>student got Knowledge of Lipid biosynthesis</li> </ol>



	BBA(CA)	101	Modern Operating	1.Student learned the Concepts of Operating
	557 ((67.1)	101	Environment & MS Office	System & Concept of MS-Office.
549			Environment & Wis office	system a concept of this office.
	BBA(CA)	101	Modern Operating	2.Student learned structure & working of
			Environment & MS Office	computer.
550				·
551	BBA(CA)	102	Financial Accounting	1. Student got basic accounting Knowledge
	BBA(CA)	102	Financial Accounting	2.Student got the Knowledge about recording of
				transact ions and preparation of final accounts
552				
	BBA(CA)	102	Financial Accounting	3.Acquaint the students about accounting software
553				packages
554	BBA(CA)	102	Financial Accounting	4. Enabled the students to acquire sound
554	DDA/GA)	102		Knowledge o f basic concepts of accounting
555	BBA(CA)	103	Programming Principal &	1.Student got the Basics Of Programming.
333	BBA(CA)	103	Algorithms Programming Principal &	2. student undestood how to use programming in
556	BBA(CA)	103	Algorithms	day to day Applications.
	BBA(CA)	104	Business Communication	1.Student understood the concept, process and
557	22/ ((3/ ),			importance of communication.
	BBA(CA)	104	Business Communication	2.Developed an integrative approach where
	` ′			reading, writing, presentation skills are used
				together to enhance the students' ability to
558				communicate and write effectively.
	BBA(CA)	104	<b>Business Communication</b>	3.Created awareness among students about
559				Methods and Media of communication.
	BBA(CA)	104	Business Communication	4. Made students familiar with information
560				technolo gy and improve job seeking skills.
561	BBA(CA)	105	Principles of Management	I -
301	DDA/CA)	105	Duin sin les ef Managent	working of business organization.
	BBA(CA)	105	Principles of Management	2. Made students well acquainted with management pr ocess , functions and principles.
562				Imanagement process, functions and principles.
	BBA(CA)	105	Principles of Management	To Made the students familiar with recent trends i
563	557 ((6, 1)		l meipies et management	n management.
	BBA(CA)	106	Laboratory Course -	Practical and actual working of constructing
	` ′		I(Based on Paper no.101	programs is done by students
564			&102)	,
	BBA(CA)	201	Procedure Oriented	1.Student learned Decision making, structure,
			Programming using C	Union & all basics of C programming language,
565				
F.C.C	BBA(CA)	202	Database Management	1. Enabled students to Understood file structure &
566	DDA/643	222	System	organization in DBMS.
	BBA(CA)	202	Database Management	2. Student understood Relational model, Relational
567			System	Database design & Concepts of SQL
30,	BBA(CA)	203	Organizational Behavior	Students Understood the impact t hat
	DDA(CA)	203	Organizational Dellaviol	individual, group & structures have on their
568				behavior within the organizations.
	BBA(CA)	203	Organizational Behavior	Helped them enhance and apply the Knowledge
	(= -7			they have received for the betterment of the
569				organization.
	BBA(CA)	204	Computer Application In	1. Students understood the power of excel
			Statistics	spreadsheet in computing summary statistics.
570	<u> </u>			



	BBA(CA)	204	Computer Application In	2. Students understood the concept of probability,
	(- )		Statistics	probability distributions and simulations in business
				world and decision making.
571				
572	BBA(CA)	302	Data Structures Using C	1.Know the concepts of Data Structure in C Programming.
573	BBA(CA)	302	Data Structures Using C	2. Understood how to use programming in day to day Applications.
574	BBA(CA)	303	Operating System Concepts	1.Know services provided by operating system.
575	BBA(CA)	303	Operating System Concepts	2.Know the Scheduling concepts.
576	BBA(CA)	303	Operating System Concepts	3.Know the system programming.
	BBA(CA)	304	Business Mathematics	1.Enableds students to Understood Profit And Loss Terms and Formulas, Matrices And Determinants, Transportation problem, Linear Programming
577				problem
578	BBA(CA)	305	Software Engineering	1.Know the concepts of C Programming.
579	BBA(CA)	305	Software Engineering	2.Understood how to use programming in day to day Applications.
	BBA(CA)	306	Laboratory Course -	1.Practical and actual working of constructing
580			III(Based On Paper No. 301 & 302)	programs is done by students
	BBA(CA)	401	OOP'S using C++	1. Acquire an Understooding of basic object-
F04				oriented concepts and the issues involved in
581	DDA/CA)	404	OODIC veire Co.	effective class design.
	BBA(CA)	401	OOP'S using C++	2. Enableds student to write C++ programs that use: object-oriented concepts such as information hiding, constructors, destructors, inheritance.
582				
583	BBA(CA)	402	Programming In Visual Basic	1. Understood the use of active controls and how to design VB application.
584	BBA(CA)	402	Programming In Visual Basic	2.learned connectivity between VB and databases.
585	BBA(CA)	402	Programming In Visual Basic	3. learned properties and events, methods of controls and how to handle events of different controls.
586	BBA(CA)	403	Computer Networking	1. Know about computer network.
	BBA(CA)	403	Computer Networking	Understood different topologies used in networking , learned different types of network.
587	224/5:3	100		
588	BBA(CA)	403	Computer Networking	3. Understood the use of connecting device used in network.
589	BBA(CA)	404	EnterpriSe Resource Planning	1. Know what is ERP.
590	BBA(CA)	404	EnterpriSe Resource Planning	2. learned different ERP (Enterprise Resource Planning) technologies.
591	BBA(CA)	205	E-Commerce Concepts	1.Knowledge the concepts of "C" Programming.
592	BBA(CA)	205	E-Commerce Concepts	2.Undestood how to use programming in day to day Applications.
593	BBA(CA)	405	Human Resourse Management	Acquaint Human Resource Processes that are concerned with planning,



	DDA/CA)	IAOE	Lluman Dasaursa	2 Mativated and developing suitable appleases
594	BBA(CA)	405	Human Resourse	2. Motivated and developing suitable employees
	BBA(CA)	405	Management Human Resourse	for the benefit of the organization.  3. Acquaint the students with the Human Resource
	BBA(CA)	403		Management its different functions in an
595			Management	organization.
	BBA(CA)	301	Relational Database	1. This course provides an introduction to the
596	BBA(CA)	301	Management Systems	relational model.
	BBA(CA)	301	Relational Database	Understood basic relational database design,
	22/ ((3/ ),		Management Systems	conceptual data modeling practices, some
			Widningerine in Systems	relational database management system ,
				operation and fundamental Structured Query
597				Language (SOL)
	BBA(CA)	406	Laboratory Course -	1.Practical and actual working of constructing
	` ′		IV(Based On Paper No.	programs is done by students
598			401 & 402)	, , , , , , , , , , , , , , , , , , , ,
	BBA(CA)	501	Java Programming	1.Understood how to use programming in day to
599				day applications.
600	BBA(CA)	501	Java Programming	2.Know the concept of Java Programming.
	BBA(CA)	206	Laboratory Course -	1.Practical and actual working of constructing
	` '		II(Based On Paper No.201	programs is done by students
601			&202)	
	BBA(CA)	502	Web Technologies	1.Know & Understood concepts of internet
602				programming.
	BBA(CA)	502	Web Technologies	2.Understood how to develop web based
603				applications using PHP.
	BBA(CA)	503	Dot Net Programming	1. This will introduce visual programming and event
				driven programming practically, This will enhance
				applications development skill of the student.
604				
605	BBA(CA)	504		1. Understood system development through object
605			Engineering	oriented techniques.
coc	BBA(CA)	504	Object Oriented Software	2. Understood concept of system design using
606	224(24)		Engineering	UML.
607	BBA(CA)	601	Advanced Web	1. Know & Understood concepts of internet
607	DDA/GA)	604	Technologies	programming.
608	BBA(CA)	601	Advanced Web	2. Understood the concepts of XML and AJAX.
000	DDA/CA)	602	Technologies	1 Understand how to use programming in doute
609	BBA(CA)	602	Advanced Java	1. Understood how to use programming in day to
610	BBA(CA)	602	Advanced Java	day applications.  2.Developed programming logic.
611	BBA(CA)	602	Advanced Java	3. Know the concept of Java Programming.
613	BBA(CA)	603	Recent Trends in IT	1. Introduced upcoming trends in Information
612	DDA/CA'	600	D	technology.
613	BBA(CA)	603	Recent Trends in IT	2. Studied Eco friendly software development.
	BBA(CA)	606	Laboratory Course -	1.Practical and actual working of constructing
614			VI(Based On Paper No.	programs is done by students
614	1004(61)	60:	601&602)	
615	BBA(CA)	604	Software Testing	1. Know the concept of software testing.
616	BBA(CA)	604	Software Testing	2. Understood how to test bugs in software.
617	BBA(CA)	604	Software Testing	3. Developed programming logic.
	BBA(CA)	605	Software Project II(Based	1.Project devlopment Cycle clearly Understood by
			On Java/Dot Net	Students
618			Technology)	



	BBA(CA)	505	Software Project I(Based	1.Detail Knowledge about SDLC, ERD, DFD,
619			On c++ / VB Technology)	Feasibility study, Designing forms, Database connectivity is done by students
	BBA(CA)	506	Laboratory Course -	Practical and actual working of constructing
620			V(Based On Paper No. 501 & 502)	programs is done by students
	B.Sc.	22121	Object Oriented Concepts	1.Students learned the Knowledge of object
	Computer		using C++	oriented concepts like encapsulation,polymorphism
621	science	22424		etc
	B.Sc. Computer	22121	Object Oriented Concepts using C++	between OOP and other conventional, Students
	science			received the Knowledge of Class & Object proprieties, Students received Knowledge about object oriented concepts and developing ability of
622				programming.
	B.Sc.	22124	Lab Course using Mysql &	1.Illustrated Creation and Manipulation of
623	Computer		Project	Database, Views, Cursor, Function, Trigger, Exception
023	science B.Sc.	22124	Lab Course using Mysql &	Handling.  2.Prepared requirment document for standard
	Computer	22124	Project	application 2.Identify problems in existing system
	science		Troject	3.Fesibility study for new computer system.
624	Selerice			Sincolonicy study for hew computer systems
	B.Sc.	22124	Lab Course using Mysql &	3. Implemented ER Diagram, Data Flow
625	Computer		Project	Diagram, Data Dictionary
025	science B.Sc.	22124	Lab Course using Mysql &	4.Implemented different process involved in
	Computer	22124	Project	application and design output screens
626	science		Froject	application and design output screens
	B.Sc.	22521	Technical English	1. Focused on grammer and communication skills. 2.
	Computer			Helped the students to build their vocabulary and
	science			improve their use of english langauge. 3.Developed their interviews skills.4.help the students develop
627				their linguistic competence.
	B.Sc.	21221	Linear Algebra	1. Got the mathematical Knowledge of eigen values
620	Computer			
628	science	24224	Lineau Aleabar	2 Cataba washawati ad Kuawata da a ƙairan
	B.Sc. Computer	21221	Linear Algebra	2. Got the mathematical Knowledge of eigen vectors and rank of matrix
629	science			vectors and rank of matrix
	B.Sc.	21221	Linear Algebra	3. Got Knowledge of linear transformation and
	Computer			types of it
630	science	0.000		
	B.Sc.	21221	Linear Algebra	4. Got the mathematical Knowledge of cryptology
631	Computer			and various concept of it
	science B.Sc.	21221	Linear Algebra	5. Got details about vector space
	Computer			
632	science			
	B.Sc.	21222	Numerical Analysis	1. Got the mathematical Knowledge of Simpson's
<b>C22</b>	Computer			1/3rd Method
633	science	21222	Numorical Analysis	2 Got the mathematical Vacual day of Numerical
	B.Sc. Computer	21222	Numerical Analysis	2.Got the mathematical Knowledge of Numerical Integration
634	science			
				ACTING PRINCIPAL Samaj Bhushan Baburao alias Appasah Jedhe Arts, Commerce & Science Colle Pune-411 002.

	B.Sc.	21222	Numerical Analysis	3.Student wiil Got Knowledge of errors ,types of
	Computer		Tramerical / marysis	errors
635	science			errors
	B.Sc.	21222	Numerical Analysis	4. Got the mathematical Knowledge of different
		21222	Numerical Analysis	_
636	Computer			types of operators like averaging, shift operators
030	science	24222	<u> </u>	5 0
	B.Sc.	21222	Numerical Analysis	5. Got the mathematical Knowledge of numerical
C27	Computer			solution of ODE equation
637	science			
	B.Sc.	21321	MicroProcessor	1. Study of programme on 8086 microprocessor
	Computer		Architechture &	architecture, basic instructions and Programming in
	science		Programming	assembly level language & interfacing with any
638				device
	B.Sc.	21321	MicroProcessor	2. Got Knowledge about Microprocessor and
	Computer		Architechture &	Architechture
639	science		Programming	, we meed tear e
	B.Sc.	21322	Communications	1. Devoleped a communication skills in different
		21322		·
	Computer		Principles	manners., 2. Get Knowledge of Satellite and Mobil
640	science			Communication 3.Got Knowledge of telephone
640				communication.
	B.Sc.	21121	Data Structures using C	1.Use of Searching and Sorting Algorithms
	Computer		Prog.	
641	science		<u> </u>	
	B.Sc.	21121	Data Structures using C	2.Linked list implementation
	Computer		Prog.	F = 12.22
642	=		l Tog.	
072	science	24422	Dealational database	1 Church and I come of a company of Transporting and
	B.Sc.	21122	Realational database	1.Student learned concepts of Transaction and
642	Computer		Managemant System	Concurrency Control by Scheduling, Locks and
643	science			Deadlock handling method
	B.Sc.	21122	Realational database	2.Student learned concepts of Database Integrity
	Computer		Managemant System	and Security
644	science		,	,
	B.Sc.	21122	Realational database	3. Student learned concepts of failure and differen
	Computer		Managemant System	techniques of recovery from failure
645	=		ivianagemant system	techniques of recovery from failure
043	science	24422	Dealetienel deteken	4 Student learned consents of Silvert Commun
	B.Sc.	21122	Realational database	4. Student learned concepts of Client Server
C 4 C	Computer		Managemant System	Technology
646	science			
647	B.Sc.	21122	Realational database	5.Student learned concepts of Relational Database
	Computer		Managemant System	Design, Preliminaries Postgres Sql data
	science		1	types,Language structure, Control & Conditional
	1			Statement , Views, Stored functions, procedure,
				·
				Handling errors, Cursors, Triggers
	B.Sc.	21521	Technical English	1. Focused on grammer and communication skills.
		21271	recinical English	1. Focused on grammer and communication skills.
C 1 O	Computer			
648	science			
	B.Sc.	21521	Technical English	2. Helped the students build their vocabulary and
	Computer			improve their use of english langauge.
649	science			
	B.Sc.	21521	Technical English	3. Improved their interview skills.
	Computer			
650	=			
-	science B.Sc.	21521	Technical English	4. Helped the students to develop their linguistic
		21271	recinical English	4. Helped the students to develop their linguistic
CE4	Computer			competence.
651	science			
				ACTING PRINCIPAL Samaj Bhushan Baburan alias Appass Jedhe Arts, Commerce & Science Col

	B.Sc.	31121	System Programming &	1.Student learned concepts of Line Editor, Types of
	Computer	31121	Operating System I	Editor.
652			Operating System i	Editor.
- 032	science B.Sc.	31121	System Programming &	2. Student learned concepts of Assembler .
		31121	Operating System I	2. Student learned concepts of Assembler.
653	Computer		Operating System i	
	science B.Sc.	31121	System Programming &	3. Student learned concepts of Macro
	Computer	31121	Operating System I	PreProcessor.
654	science		Operating System i	rieriocessoi.
	B.Sc.	31121	System Programming &	4.Student learned concepts of linker and loader
	Computer	31121	Operating System I	4. Student rearried concepts of linker and loader
655	science		Operating System i	
	B.Sc.	31121	System Programming &	5. Student learned concepts and working of System
	Computer	31121	Operating System I	Programing
656	science		Operating System i	i rogrammg
	B.Sc.	31122	Theoritical Computer	1.Students learned the Knowledge of theory of
	Computer		Science & Compiler	computation, DFA, NFA 2. Students learned the
	science		Construction I	Knowledge of CNF,CFG,GNF. 3.Students learned the
	Science		Construction	Knowledge of Moore Machine, Melay
657				Machine Turing Machine
	B.Sc.	31123	Computer Networks I	1.Students learned concepts of error detection and
	Computer			correction code.
658	science			
	B.Sc.	31123	Computer Networks I	2.Students learned concepts of internetworking
	Computer			and devices ,routing methods
659	science			
	B.Sc.	31123	Computer Networks I	3. Students learned concepts of data
	Computer		•	communication and networking refence models.
660	science			Ĭ
	B.Sc.	31124	Web Development & PHP	1. Student learned the concept of HTML
	Computer		Programming	·
661	science			
	B.Sc.	31124	Web Development & PHP	2. Students learned the concepts of PHP scripting &
	Computer		Programming	developement of Internet Websites
662	science			
	B.Sc.	31124	Web Development & PHP	3.Students learned the hands on Knowledge of PHP
	Computer		Programming	& POSTGRES
663	science			
	B.Sc.	31125	Programming in Java I	1. Created of packages and interfaces in java.
	Computer			
664	science			
	B.Sc.	31125	Programming in Java I	2. Used Exception handling and file handling
	Computer			mechanism in java programs.
665	science			
	B.Sc.	31125	Programming in Java I	3. Created of GUI using awt, swing and applets.
	Computer			
666	science		-	
	B.Sc.	31125	Programming in Java I	4. Understood object oriented concepts(class,
667	Computer			constructor, polymorphism, inheritance, interface)
667	science			in Java Language.
668	B.Sc.	31126	Object Oriented Software	1.Illustrated different phases of developing of
	Computer		Engineering	software, 2.Rrecognized different object oriented
	science			techniques, of software testing, re-usability of
				software and software maintenance.



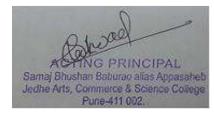
	B.Sc.	32131	System programming &	1. Students learned the concepts of Operating
	Computer	32131	Operating System II	System, advantage and disadvantage of OS.
669	science		Operating System ii	System, advantage and disadvantage of OS.
	B.Sc.	32131	System programming &	2.Student learned the concepts of Process
	Computer	00-	Operating System II	Management, CPU scheduling algorithms and
670	science		operating system ii	Process Synchronization.
	B.Sc.	32131	System programming &	3. Student learned the concepts of Deadlocks.
	Computer		Operating System II	'
671	science			
	B.Sc.	32131	System programming &	4.Student learned the concepts of Memory
	Computer		Operating System II	Management.
672	science			
	B.Sc.	32131	System programming &	5. Student learned the concepts of Storage
	Computer		Operating System II	Management
673	science			
	B.Sc.	32132	Compiler Construction II	1. Students learned the concept of Compilers,
674	Computer			Students learned the Concept of different parsing
674	science	22422	0	techniques
	B.Sc.	32133	Computer Networks II	1.Students learned concepts of security.
675	Computer			
0/3	science	32133	Computer Networks II	2 Students learned consents of Notwork layers
	B.Sc.	32133	Computer Networks II	2.Students learned concepts of Network layers
676	Computer			functions.
	science B.Sc.	32133	Computer Networks II	3.Students learned concepts of modern topics like
	Computer	32133	Computer Networks II	ISDN services and ATM
677	science			ISDN Services and Arm
	B.Sc.	32133	Computer Networks II	4.Students learned concepts of protocols like
	Computer		'	DNS,SMTP,SNMP,FTP,HTTP.
678	science			, , ,
	B.Sc.	32134	Web Development & PHP	1.Students learned the Knowledge of web
	Computer		Programming	techniques,Email handling.
679	science			
	B.Sc.	32134	Web Development & PHP	2. Created web pages using HTML & XML
	Computer		Programming	
680	science			
	B.Sc.	32134	Web Development & PHP	3. Used Java Script in web design.
681	Computer		Programming	
1001	science	22125	Drogramming in Java II	1. Used Collection classes for storing data
	B.Sc.	32135	Programming in Java II	1. Osed Collection classes for Storing data
682	Computer			
<del></del>	science B.Sc.	32135	Programming in Java II	Got knowlegde of Server programming using
	Computer		I Togramming in Java II	Servlets and JSP.
683	science			oci victo una soi i
	B.Sc.	32135	Programming in Java II	3. Got knowlegde of Client server programming
	Computer			using java.net package.
684	science			
	B.Sc.	32135	Programming in Java II	4. Understood working of multithreading
	Computer			programming
685	science			
	B.Sc.	32135	Programming in Java II	5. Got Knowledge of database connectivity.
	Computer			
686	science			



687	B.Sc.	32136	Business	1. Students learned the concepts of Graphics
00/		32130		
	Computer	1	Applications/Computer	display devices, different types of graphics drawing
	science		Graphics	algorithms. 2. Students learned the concepts of 2D
				and 3D Geometrical Transformations. 3. Students
				learned the concepts of Viewing, Curves and
		1		surfaces . 4. Students learned the concepts of
				Hidden Line/surface elimination techniques. 5.
		1		Students learned the concepts of some Scan
				Conversion algorithms
	B.Sc.	32137	Lab Course I	1.Student learned practical Knowledge of
	Computer			Implementation of system programs. examples of
	science	1		system programs is Simulator,Line
		1		Editor, Assembler, Macro Preprocessor, DFA Driver
688		1		
	B.Sc.	32137	Lab Course I	2.Student learned practical Knowledge of shell
600	Computer			programming
689	science	22427	Lab Causes I	2 Churchant I company of the state of the st
	B.Sc.	32137	Lab Course I	3.Student learned practical Knowledge of different
690	Computer			file allocation method
030	science B.Sc.	32137	Lab Course I	4.Student learned practical Knowledge of Process
	Computer	]5213/	Lub Course i	Synchronization and Scheduling
691	science	1		57
	B.Sc.	32138	Lab Course II	1. Student learned practical Knowledge of creating
	Computer			GUI using awt, swing and applets.
692	science	<u></u>		
	B.Sc.	32138	Lab Course II	2. Student learned practical Knowledge of
	Computer	1		programs on database connectivity through java
693	science	1		programs.
	B.Sc.	32138	Lab Course II	3. Student learned practical Knowledge of develope
CO 4	Computer	1		server programs using servlets and JSP.
694	science	22426		
	B.Sc.	32138	Lab Course II	4. Student learned practical Knowledge of
695	Computer	1		implementing Client Server programs.
333	science B.Sc.	32138	Lab Course II	5. Student learned practical Knowledge of
	Computer	32130	Lab Course II	implementing Java programs using java SDK in
696	science			Eclipse.
	B.Sc.	32139	Lab Course III	1.Students learned the concept of Web
	Computer			programming,database,XML,JavaScript & PHP. 2.
	science			Students learned the concepts of real world
697				problems
	B.Sc.	22727	A course in Environmental	1. Student got Knowledge of Envronment
	Computer	1	Awareness	
698	science			
	B.Sc.	22727	A course in Environmental	2. Student got Knowledge of relation between
600	Computer		Awareness	biotic n abiotic factors
699	science	22727		
	B.Sc.	22727		3.Student got Knowledge of natural & man made
700	Computer	1	Awareness	environmental problems
700	science B.Sc.	22727	A course in Environmental	4. Student got Knowledge of human behavior
	Computer	[22/2/	Awareness	towards environment
701	=		Awareness	towards environment
	science	1		



	B.Sc.	22727	A course in Environmental	5. Student got Knowledge of how to protect
		[22/2/		
702	Computer		Awareness	environment
702	science B.Sc.	22122	Software Engineering	Recognized different techniques of Software
		22122	Software Engineering	
703	Computer			Development.
, 03	science B.Sc.	22122	Software Engineering	2 Identifed different challenges in maintaining or
		22122	Software Engineering	2. Identifed different challenges in maintaining or
704	Computer			updating old software.
704	science B.Sc.	22122	Coftware Engineering	3. Justifed the strategies for testing, reusability etc.
		22122	Software Engineering	
705	Computer			to reduce cost of software development.
703	science	22122	Coftware Engineering	4 Domanstrated the releand responsibilities of
	B.Sc.	22122	Software Engineering	4.Demonstrated the role and responsibilities of
706	Computer			software engineers in various phases of software
700	science B.Sc.	22122	Software Engineering	development. 5. Illustrated different phases of developing high
		22122	Software Engineering	
707	Computer			end software in an industry.
, , ,	science B.Sc.	22322	Digital Signal	Got the Knowledge of Image Processing
		22322		11. Got the knowledge of image Processing
708	Computer		Processing/Analog system	
- 55	science B.Sc.	22322	Digital Signal	2.Got the Knowledge application of analog system
		22322	Processing/Analog system	2.Got the knowledge application of analog system
709	Computer		Processing/Analog system	
703	science B.Sc.	22322	Digital Signal	1.Got idea about sensors and their practical uses
		22322		11.00t idea about sensors and their practical uses
710	Computer		Processing/Analog system	
710	science	22323		1 Students will be able to identify the electronic
710	science B.Sc.	22323	Electronics Practical	Students will be able to identify the electronic  components & kits Students must be able to
710	science B.Sc. Computer	22323		components & kits , Students must be able to
710	science B.Sc.	22323		components & kits , Students must be able to explain code converter memory & FSK, Students
710	science B.Sc. Computer	22323		components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL &
710	science B.Sc. Computer	22323		components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical
710	science B.Sc. Computer	22323		components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by
710	science B.Sc. Computer	22323		components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical
	science B.Sc. Computer science		Electronics Practical	components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by demonstration of experiments.
	science B.Sc. Computer science B.Sc.	22323		components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by
	science B.Sc. Computer science  B.Sc. Computer		Electronics Practical	components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by demonstration of experiments.
711	B.Sc. Computer science  B.Sc. Computer science	22223	Electronics Practical  Mathematics Practical	components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by demonstration of experiments.  1.Got Knowledge of basic command of scilab
711	B.Sc. Computer science  B.Sc. Computer science  B.Sc. Computer science B.Sc.		Electronics Practical	components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by demonstration of experiments.  1.Got Knowledge of basic command of scilab  2.Got details about different operations on matrix
711	B.Sc. Computer science  B.Sc. Computer science  B.Sc. Computer science B.Sc. Computer	22223	Electronics Practical  Mathematics Practical	components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by demonstration of experiments.  1.Got Knowledge of basic command of scilab
711	B.Sc. Computer science  B.Sc. Computer science  B.Sc. Computer science  B.Sc. Computer	22223	Electronics Practical  Mathematics Practical  Mathematics Practical	components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by demonstration of experiments.  1.Got Knowledge of basic command of scilab  2.Got details about different operations on matrix using scilab
711	B.Sc. Computer science  B.Sc. Computer science  B.Sc. Computer science  B.Sc. Computer science  B.Sc.	22223	Electronics Practical  Mathematics Practical	components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by demonstration of experiments.  1.Got Knowledge of basic command of scilab  2.Got details about different operations on matrix using scilab  3.Got Knowledge of numerical integration using
711	B.Sc. Computer science  B.Sc. Computer science B.Sc. Computer science B.Sc. Computer science Computer	22223	Electronics Practical  Mathematics Practical  Mathematics Practical	components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by demonstration of experiments.  1.Got Knowledge of basic command of scilab  2.Got details about different operations on matrix using scilab
711 712 713	B.Sc. Computer science  B.Sc. Computer science B.Sc. Computer science B.Sc. Computer science Science Computer science	22223 22223 22223	Electronics Practical  Mathematics Practical  Mathematics Practical	components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by demonstration of experiments.  1.Got Knowledge of basic command of scilab  2.Got details about different operations on matrix using scilab  3.Got Knowledge of numerical integration using scilab
711 712 713	B.Sc. Computer science  B.Sc. Computer science B.Sc. Computer science B.Sc. Computer science B.Sc. Computer science B.Sc. Computer	22223	Electronics Practical  Mathematics Practical  Mathematics Practical  Mathematics Practical	components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by demonstration of experiments.  1.Got Knowledge of basic command of scilab  2.Got details about different operations on matrix using scilab  3.Got Knowledge of numerical integration using scilab  4.Student learned to Know numerical interpolation
711 712 713	B.Sc. Computer science  B.Sc. Computer science Computer science Computer	22223 22223 22223	Electronics Practical  Mathematics Practical  Mathematics Practical  Mathematics Practical	components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by demonstration of experiments.  1.Got Knowledge of basic command of scilab  2.Got details about different operations on matrix using scilab  3.Got Knowledge of numerical integration using scilab
711 712 713 714	B.Sc. Computer science  Science  B.Sc. Computer science	22223 22223 22223	Electronics Practical  Mathematics Practical  Mathematics Practical  Mathematics Practical	components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by demonstration of experiments.  1.Got Knowledge of basic command of scilab  2.Got details about different operations on matrix using scilab  3.Got Knowledge of numerical integration using scilab  4.Student learned to Know numerical interpolation using scilab
711 712 713 714	B.Sc. Computer science  B.Sc. Computer science B.Sc. Computer science B.Sc. Computer science B.Sc. Computer science B.Sc. Computer science B.Sc. Computer science B.Sc.	22223 22223 22223 22223	Electronics Practical  Mathematics Practical  Mathematics Practical  Mathematics Practical  Mathematics Practical	components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by demonstration of experiments.  1.Got Knowledge of basic command of scilab  2.Got details about different operations on matrix using scilab  3.Got Knowledge of numerical integration using scilab  4.Student learned to Know numerical interpolation using scilab  5. Student learned to Know about circle,ellipse
711 712 713 714	B.Sc. Computer science  B.Sc. Computer science B.Sc. Computer science B.Sc. Computer science B.Sc. Computer science B.Sc. Computer science B.Sc. Computer science Computer science Computer	22223 22223 22223 22223	Electronics Practical  Mathematics Practical  Mathematics Practical  Mathematics Practical  Mathematics Practical	components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by demonstration of experiments.  1.Got Knowledge of basic command of scilab  2.Got details about different operations on matrix using scilab  3.Got Knowledge of numerical integration using scilab  4.Student learned to Know numerical interpolation using scilab
711 712 713 714 715	B.Sc. Computer science  B.Sc. Computer science B.Sc. Computer science B.Sc. Computer science B.Sc. Computer science B.Sc. Computer science B.Sc. Computer science Science B.Sc. Computer science	22223 22223 22223 22223	Electronics Practical  Mathematics Practical  Mathematics Practical  Mathematics Practical  Mathematics Practical  Mathematics Practical	components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by demonstration of experiments.  1.Got Knowledge of basic command of scilab  2.Got details about different operations on matrix using scilab  3.Got Knowledge of numerical integration using scilab  4.Student learned to Know numerical interpolation using scilab  5. Student learned to Know about circle, ellipse using C programming
711 712 713 714 715	B.Sc. Computer science  B.Sc.	22223 22223 22223 22223	Electronics Practical  Mathematics Practical  Mathematics Practical  Mathematics Practical  Mathematics Practical  Mathematics Practical  Microcontroller &	components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by demonstration of experiments.  1.Got Knowledge of basic command of scilab  2.Got details about different operations on matrix using scilab  3.Got Knowledge of numerical integration using scilab  4.Student learned to Know numerical interpolation using scilab  5. Student learned to Know about circle, ellipse using C programming
711 712 713 714 715	B.Sc. Computer science  B.Sc. Computer	22223 22223 22223 22223	Electronics Practical  Mathematics Practical  Mathematics Practical  Mathematics Practical  Mathematics Practical  Mathematics Practical	components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by demonstration of experiments.  1.Got Knowledge of basic command of scilab  2.Got details about different operations on matrix using scilab  3.Got Knowledge of numerical integration using scilab  4.Student learned to Know numerical interpolation using scilab  5. Student learned to Know about circle, ellipse using C programming  1.Study of programme on 8051 microcontroller architecture instructions set, Programming
711 712 713 714 715	B.Sc. Computer science  B.Sc.	22223 22223 22223 22223	Electronics Practical  Mathematics Practical  Mathematics Practical  Mathematics Practical  Mathematics Practical  Mathematics Practical  Microcontroller &	components & kits , Students must be able to explain code converter memory & FSK, Students will be able to learned & Understood KEIL & PINNECLE Software, Understood the practical Knowledge of various electronics phenomenon by demonstration of experiments.  1.Got Knowledge of basic command of scilab  2.Got details about different operations on matrix using scilab  3.Got Knowledge of numerical integration using scilab  4.Student learned to Know numerical interpolation using scilab  5. Student learned to Know about circle, ellipse using C programming  1.Study of programme on 8051 microcontroller



	B.Sc.	11321	Principles of Analog	1.Got Knowledge electronic components and
	Computer		Electronics	construction, 2. Got idea about signals used in dail
	science			rouiten, 3. Got clear idea about all types of signals
718				and basic electronic circuits.
719	B.Sc.	11322	Principles of Digital	1.Students learned Knowledge of number systeme
	Computer		Electronics	& logic gates. 2.Students learned Knowledge of
	science			multiplexers & sequential circuits. 3.Students
				learned Knowledge of boolean algebra &
				combinational circuits. 4.Students will be able to
				Understood some logic
				familias/TTL ECL MOS CMOS)
	B.Sc.	22222	Operations Reasearch	1.Got the Mathematical Knowledge of LPP
700	Computer			
720	science			
	B.Sc.	22222	Operations Reasearch	2. Got the mathematical Knowledge of
724	Computer			transportation problem
721	science			
	B.Sc.	22222	Operations Reasearch	3. Got details about simplex method and its types
722	Computer			
722	science	2222	<u> </u>	1.0.11
	B.Sc.	22222	Operations Reasearch	4. Got the mathematical Knowledge of game theor
723	Computer			
723	science	22222	O	Cottle week and the Manual description
	B.Sc.	22222	Operations Reasearch	5. Got the mathematical Knowledge of Assignment
724	Computer			problem and types of it
724	science B.Sc.	22221	Computational Geometry	1.Got the Knowledge of two dimentional objects
		22221	Computational Geometry	1.Got the knowledge of two dimentional objects
725	Computer			
723	science B.Sc.	22221	Computational Geometry	2. Student learned the concepts of three
		22221	Computational Geometry	• • • • • • • • • • • • • • • • • • •
726	Computer			dimentional rotations,reflections,scaling
720	science B.Sc.	22221	Computational Geometry	3. Student learned the concepts of types of
		22221	Computational Geometry	projection
727	Computer			projection
	science B.Sc.	22221	Computational Geometry	4. Student learned the concepts of solid body
	Computer	22221	computational decimetry	transfomation
728	science			
	B.Sc.	22221	Computational Geometry	5. Got the Knowledge of generation of
	Computer		,	circle,ellipse,parabola,Hyperbola
729	science			
	B.Sc.	11121	Introduction to	1.Students will do small programs using
	Computer		Programming & C	functions, arrays, strings and control structures.
730	science		Programming	
	B.Sc.	11121	Introduction to	2.Students learned concepts of structures, pointers
	Computer		Programming & C	and file handling
731	science		Programming	
	B.Sc.	11121	Introduction to	3.Students learned concepts of programming.
	Computer		Programming & C	
732	science		Programming	
	B.Sc.	11124	Lab Course based on	1. Creation of simple HTML pages using HTML5
	Computer		O.S.,HTML,Shell	tags.
733	science		Programming & DBMS	
	B.Sc.	11124	Lab Course based on	2. Frame creation and Webform Designing.
:	Computer		O.S.,HTML,Shell	
734	science		Programming & DBMS	
				ACHING PRINCIPAL Samaj Bhushan Baburao alias Appasa Jedhe Arts, Commerce & Science Colli

	B.Sc.	11124	Lab Course based on	3.Creation of database using SQL commands.
		11124		5. Creation of database using SQL commands.
735	Computer		O.S.,HTML,Shell	
/33	science	11101	Programming & DBMS	
	B.Sc.	11124	Lab Course based on	4. Insert, update, delete and manipulate data from
726	Computer		O.S.,HTML,Shell	database.
736	science		Programming & DBMS	
	B.Sc.	11223	Mathematics Practical	1- Student learned to Know about divisibility of
727	Computer		Paper	integers
737	science			
	B.Sc.	11223	Mathematics Practical	2-Got details about operations on graph C
720	Computer		Paper	
738	science			
	B.Sc.	11223	Mathematics Practical	3- Student learned to Know binary operations and
720	Computer		Paper	Algebraic System
739	science			
	B.Sc.	11223	Mathematics Practical	4-Got details about algorithems of graphs
740	Computer		Paper	
740	science			
	B.Sc.	11223	Mathematics Practical	5-Student learned to Know about relations and
744	Computer		Paper	functions
741	science			
	B.Sc.	11422	Statistics Methods II	1. By the end of the course students are expected
742	Computer			to be able : to distinguish between random and non-
742	science			random experiments.
	B.Sc.	11422	Statistics Methods II	2. to find the probabilities of events.
742	Computer			
743	science			
	B.Sc.	11422	Statistics Methods II	3. to obtain a probability distribution of random
	Computer			variable in the given situation,
744	science			
	B.Sc.	11422	Statistics Methods II	4. to apply standard discrete probability
	Computer			distribution to different situations ,
745	science			
	B.Sc.	11422	Statistics Methods II	5. To apply the different hypothesis testing
746	Computer			methods to real life situations
746	science			
	B.Sc.	11422	Statistics Methods II	6 . To use simulation techniques to generate
747	Computer			random samples.
747	science	1		
	B.Sc.	11422	Statistics Methods II	7. Understood the Methods of counting
740	Computer			
748	science	44.422	C. I. I. A. I. I. I.	
	B.Sc.	11422	Statistics Methods II	8.to Understood the sample space events
749	Computer			
	science	11.433	Dunation Course	Dualing and of this account about an
750	B.Sc.	11423	Practical Course in	By the end of this course students are expected to
	Computer		Statistics	be able: 1. to compute various measures of central
	science			tendency, dispersion, skewness and kurtosis, 2. to
				compute correlation coefficient, regression
				coefficients, 3. to fit binomial distribution, 4. to
				analyse data pertaining to discrete and continuous
				variables and to interpret the results, 5. to analyse
				the data using different hypothesis testing methods
				6) To use simulation techniques
<u></u>				

ACTING PRINCIPAL Samaj Bhushan Baburao alias Appasaheb Jedhe Arts, Commerce & Science College Pune-411 002:

751	B.Sc. Computer	11323	Electronics Practical Paper	1:-Students will be able to identify the electronics components and instruments 2:-Students must be
	science			able to explain rectifier diode & zener diode
				characteristics & calculations 3:-Students will be
				able to draw & explain IV characteristics of
				BJT,Amplifire 4:-Students will be able to explain
				logic gate, Theorems, Adders & sequential circuits.
	B.Sc.	11123	Lab Course based on C	1. Practical Knowledge of linux commands.
752	Computer		Programming	
732	science B.Sc.	11123	Lab Course based on C	2.Students learned practical Knowledge of C
	Computer	11123	Programming	programming lang.
753	science			F 2
	B.Sc.	11123	Lab Course based on C	3.Students will do programs like pascal
754	Computer		Programming	triangle, floyds trianlge, matrix operations, recursion
754	science B.Sc.	11123	Lab Course based on C	4 Students learned concept of simple programs and
	Computer	111123	Programming	4.Students learned concept of simple programs and demonstrate control structures
755	science		Frogramming	demonstrate control structures
	B.Sc.	11122	File Organisation &	1.Understooding types of files, File organisation in
_	Computer		Fundamental Database	files and Index Structure.
756	science			
	B.Sc.	11122	File Organisation &	2.Students learned the concepts of DBMS, data
757	Computer		Fundamental Database	models (E-R model,etc) and database.
737	science B.Sc.	11122	File Organisation &	3.Understooding concepts of SQL and Integrity
	Computer		Fundamental Database	constraints.
758	science		- anadmental 2 atabase	
	B.Sc.	11122	File Organisation &	4. Normalization using Functional dependencies.
	Computer		Fundamental Database	
759	science	11001	D:	
	B.Sc.	11221	Discrete Mathematics	1:-Got the mathematical Knowledge of such Graphs
760	Computer			
	science B.Sc.	11221	Discrete Mathematics	2:-Logic recurrence relation and counting principle
	Computer			
761	science			
	B.Sc.	11221	Discrete Mathematics	3:-student learned the concepts of Operations on
762	Computer			graph
702	science B.Sc.	11221	Discrete Mathematics	4:-student learned the Knowledge of all logical
	Computer		Discrete Wathernaties	Connectives
763	science			
	B.Sc.	11221	Discrete Mathematics	5:-student learned concepts of graphical
764	Computer			Algorithem
764	science	11222	Algobra 9. Calculus	1. Cot Knowledge of Polations and Functions
	B.Sc. Computer	11222	Algebra & Calculus	1:-Got Knowledge of Relations and Functions
765	science			
	B.Sc.	11222	Algebra & Calculus	2:-Student learned the concept of group, subgroup
	Computer			
766	science			
	B.Sc.	11222	Algebra & Calculus	3:-Student learned to Know mathematical induction
767	Computer			
, , ,	science			
				Oshead
				ACTING PRINCIPAL Samaj Bhushan Baburao alias Appasal
				Contract the contract of the c

	B.Sc.	11222	Algebra & Calculus	4:- Student learned to Know about continuity of
	Computer	11222	Algebra & Calculus	function
768	•			
	science B.Sc.	11222	Algebra & Calculus	5:-Got Knowledge about Successive Differentiation
	Computer	11222	Algebra & Calculus	5Got knowledge about successive billerentiation
769	science			
	B.Sc.	11421	Statistics Methods I	1. By the end of this course students are expected
	Computer			to be able: to tabulate statistical information given
770	science			in descriptive form.
	B.Sc.	11421	Statistics Methods I	Use graphical techniques and interpret.
	Computer			4, 11, 11, 11, 11, 11, 11, 11, 11, 11, 1
771	science			
	B.Sc.	11421	Statistics Methods I	3. Compute various measures of central tendency,
	Computer			dispersion, skewness and kurtosis.
772	science			
	B.Sc.	11421	Statistics Methods I	4. Compute the correlation coefficient for bivariate
	Computer			data and interpret it.
773	science			
	B.Sc.	11421	Statistics Methods I	5. Analyze data pertaining to time series and to
	Computer			interpret the results.
774	science			
	B.Sc.	11421	Statistics Methods I	6. Summarized and analyze the data using
	Computer			computer.
775	science			
	Bachelor Of	101	Business Communication	1. Understood the concept, process and
776	Computer			importance of communication.
776	Application	1		
	Bachelor Of	101	Business Communication	2. Made students familiar with information
777	Computer			technology.
///	Application Bachelor Of	101	Duainasa Camanauniastian	2. Cain Knowledge of modic of communication
		101	Business Communication	3. Gain Knowledge of media of communication.
778	Computer			
770	Application Bachelor Of	101	Business Communication	4.Developed skills of effective communication -
	Computer		business communication	both written and oral.
779	Application			Both written and oral.
	Bachelor Of	102	Principles Of	1.Provide the fundamental Knowledge about
	Computer		Management	working of business organization.
780	Application			
	Bachelor Of	102	Principles Of	2. Made students well acquainted with
	Computer		Management	management pr ocess , functions and principles.
781	Application			
	Bachelor Of	102	Principles Of	3. Made the students familiar with recent trends i n
	Computer		Management	management.
782	Application			
	Bachelor Of	102	Principles Of	4. Provided a basis of Understooding to the
	Computer		Management	students with reference to working of business
	Application			organization through the process of management.
783	<u> </u>	1	<u> </u>	
	Bachelor Of	103	1	1. Know the Basics Of Programming
784	Computer		Algorithms	
784	Application	102	Durana mania Di il 2	2 Hadastandhamtana
	Bachelor Of	103	Programming Principles &	2. Undestood how to use programming in day to
785	Computer		Algorithms	day Applications.
700	Application	ļ		



achelor Of computer achelor Of computer coplication achelor Of computer coplication achelor Of computer coplication	104	Office Automation	Know the basics of computers     Understood basics of operting system
application achelor Of computer application achelor Of computer application		Computer Fundamental &	Understood basics of operting system
achelor Of computer polication achelor Of computer polication		· · · · · · · · · · · · · · · · · · ·	Understood basics of operting system
omputer  polication  achelor Of  omputer  polication		· · · · · · · · · · · · · · · · · · ·	1. Understood basics of operting system
oplication achelor Of omputer oplication	104	Office Automation	
achelor Of computer application	104		
omputer oplication	104		
pplication		1	1. Understood how to use software packages in day
		Office Automation	to day activity
achelor Of			
	104	· ·	1. Microsoft Office and its features are easily used
omputer		Office Automation	in practical way.
pplication			
achelor Of	105	Business Accounting	1. Impart basic accounting Knowledge
-			
	105	Business Accounting	2. Enabled the students to acquire sound
•			Knowledge of basic concepts of accounting
pplication	ļ		
	105	Business Accounting	3. Impart the Knowledge about recording of
omputer	1		transact ions and preparation of final accounts
	105	Business Accounting	4. Acquaint the students about accounting software
-			packages
	106		1. Practical and actual working of constructing
=		Practical Work(OA + PPA)	programs is done by students
pplication			
	201	Organizational Behavior	1. Enabled the students to Understood the impact
=			tha t individual, group & structures have on
pplication			behavior within the organizations and apply such
			Knowledge t owards improving organizational
			effectiveness
	201	Organizational Behavior	2. Students to understood the impact t hat
=			individual, group & structures have on their
			behavior within the organizations.
	201	Organizational Behavior	3. Helped to student enhance and apply the
-			Knowledge they have received for the betterment
			of the organization.
	202	Elements Of Statistics	1. Student understood the power of excel
•			spreadsheet in computing summary statistics.
	1000	EL	
	202	Elements Of Statistics	2. Student understood the concept of various
-			measures of central tendency and variation and
	1000	EL	their importance in business.
	202	Elements Of Statistics	3.Student understood the concept of probability,
omputer	1		probability distributions
pplication	ļ		
	203	C Programming	1.Student understood basic Language Skills are
=			developed Students learned about all basics of
pplication	ļ		programming language
	204		1. Knowlegde of the fundamentals of databases
omputer		Concepts	
pplication			
	204		2 Knowlegde of using databases in day to day
omputer		Concepts	applications
pplication	<u> </u>		
	achelor Of computer polication	poplication achelor Of computer poplication achelor Of compute	polication achelor Of pomputer

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	DllOf	Таог	Icart Assessmenting	4 January Harris Marcallana of Basis and a second
	Bachelor Of	205	Cost Accounting	1. Impart the Knowledge of Basic cost concepts,
004	Computer			element of cost & Preparation of Cost Sheet.
804	Application			
	Bachelor Of	205	Cost Accounting	2. Provide basic Knowledge of important Methods
	Computer			& Techniques of costing.
805	Application			
	Bachelor Of	206	Computer Laboratory &	1.Practical and actual working of constructing
	Computer		Practical Work(C P+	programs is done by students
806	Application		DBMS)	
807	Bachelor Of	301	Numerical Methods	1. Understood and Master the concepts, techniques
	Computer			& applications of Numerical Methods, develop the
	Application			skills of solving real life problems by using
	' '			Computer Programming, Made students to
				Understood the art of applying Mathematical
				techniques to solve some real life problems, gained
				Knowledge of Numerical Computations
	Bachelor Of	302	Data Structure Using C	1. learned the systematic way of solving problems
	Computer			,
808	Application			
	Bachelor Of	302	Data Structure Using C	2. Understood the different methods of organizing
	Computer	1002	Data Structure Same	large amounts of data
809	Application			large amounts of data
	Bachelor Of	302	Data Structure Using C	3. Efficiently implement the different data
	Computer	302	Data Structure Using C	structures by students
810				structures by students
010	Application Bachelor Of	302	Data Structure Using C	4. Efficiently implement solutions for specific
		302	Data Structure Osing C	1
811	Computer			problem Prerequisites by students
- 011	Application Bachelor Of	202	Coftugue Franciscovina	1 Facility of a trade of the Handa water and assets and
		303	Software Engineering	1.Enabledd students to Understood system
812	Computer			concepts and its application in software
012	Application	204	NA	development
	Bachelor Of	304	Management Accounting	1. Impart basic Knowledge of Management
012	Computer			Accounting
813	Application	1004		
	Bachelor Of	304	Management Accounting	2. Enabled the students to acquire sound
014	Computer			Knowledge o f basic concepts of accounting
814	Application			
	Bachelor Of	305	RDBMS	1.This course provided an introduction to the
045	Computer			relational model.
815	Application			
	Bachelor Of	305	RDBMS	2.Basic relational database design, conceptual data
	Computer			modeling practices, some relational database
	Application			management system , operation and fundamental
				Structured Query Language (SQL).
816				, , ,
	Bachelor Of	306	Computer Laboratory &	1.Practical and actual work of constructing
	Computer		Practical	programs are done by students
817	Application		Work(DS+RDBMS)	
	Bachelor Of	401	Networking	1. Know about computer networking
	Computer			
818	Application			
	Bachelor Of	401	Networking	2. Understood different topologies used in
	Computer			networking
819	Application			
	Application		•	!



	Bachelor Of	401	Networking	3.Learned different types of network
	Computer			<b>"</b>
820	Application			
	Bachelor Of	401	Networking	4.Understood use of connecting devices used in
		401	Networking	_
821	Computer			network
821	Application			
	Bachelor Of	402	Visual Basics	1.Understood the use of active controls and how to
	Computer			design VB applications
822	Application			
	Bachelor Of	402	Visual Basics	2.Learned connectivity between VB and databases
	Computer			,
823	- I			
	Application Bachelor Of	402	Visual Basics	2 Ctudents learnedt preparties and events method
		402	VISUAL BASICS	3.Students learnedt properties and events, mothod
024	Computer			of controls and how to handle events of different
824	Application			controls.
	Bachelor Of	403	Inventory	1.Skill programming
	Computer		Management(SAD)	
825	Application			
	Bachelor Of	404	Human Resource	1. Acquaint the students with the Human Resource
	Computer	1.2.	Management	Management its different functions in an
	=		ivialiagement	_
	Application	1		organization and the Human Resource Processes
				that are concerned with planning, motivating and
				developing suitable employees for the benefit of
826				the organization
	Bachelor Of	404	Human Resource	2. Acquaint the students with the Human Resource
	Computer		Management	Management its different functions in an
827	Application			organization.
	Bachelor Of	404	Human Resource	Motivated and developing suitable employees
		707		· -
828	Computer		Management	for the benefit of the organization.
020	Application			
	Bachelor Of	404	Human Resource	4. Acquaint Human Resource Processes that are
	Computer		Management	concerned with planning,
829	Application			
	Bachelor Of	405	Object Oriented	1.Aquired and Understooding basics of object
	Computer		Programming Using C++	oriented concepts and the issues involved in
830	Application			effective class design.
	Bachelor Of	405	Object Oriented	2. Enabled students to write c++ programs that use
		1703		· -
	Computer		Programming Using C++	object: oriented concepts such as information
024	Application			hiding constructors distructors, inheritance
831		1	<u> </u>	
	Bachelor Of	406	Computer Laboratory &	1.Practical and actual working of constructing
	Computer	1	Practical Work(VB+ C++)	programs is done by students
832	Application			
	Bachelor Of	501	. NET Frameworks	1.VB.net programming skills of students are
	Computer			enhanced. Students learned about the ADO. Net
833	Application	1		connectivity, SQL server connectivity
	Bachelor Of	502	Internet Programming &	
		302	= =	1.Brief Knowledge about the scripting languages
024	Computer	1	Cyber Law	like HTML and Javascript
834	Application	1	1	
	Bachelor Of	503	Principals Of Marketing	1.Articulate the essential function of business, but
	Computer	1		more especially the role of marketing activities fo r
835	Application			the firm.
	Bachelor Of	503	Principals Of Marketing	2.Demonstrate an Understooding, identify, and
	Computer	1	'   '   '   '   '   '   '   '   '   '	apply t he concept of the marketing mix: product,
				Tapping the concept of the marketing mix. product,
	=			
836	Application			pricing, promotions and distribution tactics of the

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	la 1 1 51	Isos	In	
	Bachelor Of	503	Principals Of Marketing	3.Applyed the concept of marketing strategy to
	Computer			analyze a business case scenario and provide
837	Application			recommendations for the firm.
	Bachelor Of	504	Core Java	1.Designing and scripting done using applet
	Computer			
838	Application			
	Bachelor Of	505	Project Work(VB)	1.Detail Knowledge about SDLC, ERD, DFD,
		303	Troject Work(VB)	_
839	Computer			Feasibility study, Designing forms, Database
633	Application		<del> </del>	connectivity is done by students
	Bachelor Of	506	•	1.Practical and actual working of constructing
	Computer		Practical Work(. NET	programs is done by students
840	Application		+Core Java)	
	Bachelor Of	601	E-Commerce	1.Know the concept of electronic commerce
	Computer			
841	Application			
	Bachelor Of	601	E-Commerce	2. Know what is Internet and Extranet
	Computer			
842	•			
5-72	Application	601	E Commorco	2 Know Internet marketing techniques
	Bachelor Of	601	E-Commerce	3.Know Internet marketing techniques
0.40	Computer			
843	Application			
	Bachelor Of	602	Multimedia Systems	1. Know the concept of multimedia system
	Computer			
844	Application			
	Bachelor Of	602	Multimedia Systems	2.Know different software concept tools using
	Computer			multimedia
845	Application			multimedia
	Bachelor Of	602	Multimedia Systems	3.Know different file formats
		602	iviuitiineula systems	5.Know unferent file formats
846	Computer			
840	Application	-		
	Bachelor Of	603	Introduction To SysPro &	1.Detail Knowledge about operating system
	Computer		Operating Systems	concepts and problem solving is done by students
847	Application			
	Bachelor Of	604	Advanced Java	1.Application Development using Servlet & JSP
	Computer			programming done easily.
848	Application			
	Bachelor Of	605	Project Work ( Banking&	1.Project devlopment Cycle clearly Understood by
	Computer		Finance ,Cost	Students
			•	Students
	Application		Analysis, Financial	
			Analysis,Payroll,EDP,ERP	
0.10			etc.)	
849	ļ			
	Bachelor Of	606	Computer Laboratory &	1.Practical and actual working of constructing
	Computer		Practical	programs is done by students
	Application		Work(Multimedia +	
850	1-1-1-1-1-1		Advanced Java)	
	B.Com	1313	COMMERCIAL	1. Understood THE CONCEPT OF AGRICULTURE
851	Geography	1	GEOGRAPHY	TYPE
<b>—</b>	B.Com	1313	COMMERCIAL	2.Understood THE CONCEPT OF POPULATION
852		1,2,1,3		2.011de13t00d THE CONCEPT OF POPULATION
032	Geography	11212	GEOGRAPHY	2 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
050	B.Com	1313	COMMERCIAL	3. Understood THE CONCEPT OF ENIVIRONMENT
853	Geography		GEOGRAPHY	
	B.Com	1313	COMMERCIAL	4. Understood THE CONCEPT OF ENERGY
854	Geography		GEOGRAPHY	
	B.Com	1313	COMMERCIAL	5.Understood THE CONCEPT OF IMPORTANCE OF
855	Geography		GEOGRAPHY	FOREST
		•		0

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	B.Com	1243	Insurance and Transport	1. Understood concept Insurance
856	Geography			
	B.Com	1243	Insurance and Transport	2.Understood the concept of life insurance
857	Geography			
	B.Com	1243	Insurance and Transport	3.Understood of general Insurance
858	Geography			



Id	Program	CourseCode	CourseName	Courses outcomes

1 B.Com

- 112 Financial Accounting- I 1. To impart knowledge of basic accounting concepts
  - 2. To create awareness about application of these concepts in business world 3. To impart skills regarding Computerised Accounting

## 2.6.1:- All Program outcomes(PO)

Program No.	Program	Program outcomes	Subjects	Year
1	B.A.	1: Understand economics concepts and problems of economics, demand and supply law its variations.	B.A - Economics	2020-21
		2 Knowledge of population demographic theory, poverty and unemployment and its measures of eradications.	B.A - Economics	2020-21
		3 understanding price determinations under various market structures.	B.A - Economics	2020-21
		4: Understand factors of production determinants.	B.A - Economics	2020-21
		5 knowledge of national income accounting, inflation measures.	B.A - Economics	2020-21
		6 Understand present economic profile as an emerging economy.	B.A - Economics	2020-21
		7 knowledge of international financial intuitions functioning, its achievement and current status.	B.A - Economics	2020-21
		8 Knowledge of theories of development and growth, macro economics policy its implantations.	B.A - Economics	2020-21
		1. Develop linguistic competence,	B.A.(English)	2020-21
		2 Knowledge of Various Genres of Literature	B.A.(English)	2020-21
		3. knowledge of Linguistics and Phonetics to enhance Communication Skills	B.A.(English)	2020-21
		4 Critical Analysis of literary Works	B.A.(English)	2020-21
		5.Develop writing skills in English	B.A.(English)	2020-21
		1. Enable students to gain knowledge for Courses of Travel and Tourism, Surveyor, Geo-informatics, MSW., GPS,GIS & RS etc.	B.A.(Geography)	2020-21

2. Students can gain knowledge and get success in UPSC and MPSC competitive exams.	B.A.(Geography)	2020-21
3.Students are enabled to conduct socio-economic Survey with appropriate Methods and explain it with GIS & RS.	B.A.(Geography)	2020-21
4. Students are able to read & explain Toposheets & IMD Weather Map.	B.A.(Geography)	2020-21
5. Develop competence to find causes, study the consequences and giving suggestions for Disaster Management and can actively participate where ever applicable.	B.A.(Geography)	2020-21
6. Gain knowledge and guide about different tourist places with geographical, Historical, Spiritual as well as aesthetic angle. tourist places.	B.A.(Geography)	2020-21
8. Students can understand & explain the situation of Physio- Socio-Economic aspects of India.	B.A.(Geography)	2020-21
9. Student can understand the Natural & Manmade Resources and its importance for life.	B.A.(Geography)	2020-21
10. Students can aware and Practice advanced and scientific agricultural methods in their Personal perspective.	B.A.(Geography)	2020-21
11. Understand the concept of trade, environment ,argiculture,population	B.A.(Geography)	2020-21
12. Students can Understand and explain about the Origin and landforms on the earth.	B.A.(Geography)	2020-21
1 Development of citizenship	B.A. (politics)	2020-21
2.Constitutional awareness	B.A. (politics)	2020-21
3. Develop ideological base	B.A. (politics)	2020-21
	· ·	-

		4.Develop International perspective	B.A. (politics)	2020-21
		1 Awareness of linguistic skills	B.A (Marathi)	2020-21
		2. Develop Literary Skills	B.A (Marathi)	2020-21
		3. Use of Marathi in Practical life as a language of communication	B.A (Marathi)	2020-21
		4. Exposure to different genres of Marathi Literature	B.A (Marathi)	2020-21
		5. Develop Critical abilities to understand the subItleties of language	B.A (Marathi)	2020-21
		6. Understand the scope and use of Marathi in Media, Newspapers and other Arts	B.A (Marathi)	2020-21
2	B.Com	1:Understand banks and its fuctions.	B. Com. (Banking & Economics)	2020-21
		2: Awareness about new technology implementation in banking sector.	B. Com. (Banking & Economics)	2020-21
		3: Gain knowledge about financial markets its fuctions, SBI role and controls.	B. Com. (Banking & Economics)	2020-21
		4: students understand money and capital market, foreign exchange markets its workings.	B. Com. (Banking & Economics)	2020-21
		5: Students get knowledge about financial investment intuition especially in India.	B. Com. (Banking & Economics)	2020-21
		6: Understand banking regulation Act provisions and new amendments.	B. Com. (Banking & Economics)	2020-21

B. Com. (Banking & Economics)	2020-21
B. Com. (Banking & Economics)	2020-21
B.COM(commerc e)	2020-21
	& Economics)  B. Com. (Banking & Economics)

		5: Knowledge of various manageral aspects.	B.COM(commerc e)	2020-21
		6: To enhance communicative skills	B.COM(commerc e)	2020-21
		7: Development of business skills and entrepreneurship	B.COM(commerc e)	2020-21
		8:Knowledge of banking rules regulation laws and practices.	B.COM(commerc e)	2020-21
		9: Understanding of the Theory and Practice of Economics and knowledge of the consequences of Economical changes.	B.COM(commerc e)	2020-21
		10- Achieve professional success thruogh communication skills	B.COM(commerc e)	2020-21
3	B.Sc. (Comp.)	1.Theoretical and Practical skills of Computer Science	B.C.S.	2020-21
		Ability to apply knowledge of computing and mathematics appropriately	B.C.S.	2020-21
		3. Competence to identify formulate and develop solutions to computational challenges.	B.C.S.	2020-21
		4. Ability to design implement and evaluate computational system to meet desired results	B.C.S.	2020-21
		5. Abillity to use appropriate technology skills and tools necessary for computing practice	B.C.S.	2020-21
		6.Application of knowledge of computing and statistics appropriately	B.C.S.	2020-21
4	B.C.A.	I.Impart knowledge required for planning, designing and building Complex Application Software Systems	B.C.A.	2020-21
		2.Provide sound academic base from which an advanced career in Computer Applications can be developed.	B.C.A.	2020-21
		3.Develop practical skills to address problems in computer systems and applications.	B.C.A.	2020-21

		4.Produce knowledgeable and skilled human resources which is employable in IT	B.C.A.	2020-21
		5.Develop practical skills to address problems in computer systems and applications.	B.C.A.	2020-21
		6.Teaches professional competence in developing software and in its design and implementation.	B.C.A.	2020-21
		7.Provide basic statistical knowledge required for computer applications	B.C.A.	2020-21
		8.Provide sound academic base from which an advanced career in Computer Applications can be	BBA[CA]	2020-21
		9.Conceptual grounding in computer usage as well as its practical business application will be provided making	BBA[CA]	2020-21
		10.Develop students to become globally competent.	BBA[CA]	2020-21
		11.Provides practical skills to address problems in computer systems and applications.	BBA[CA]	2020-21
		12.Provide basic statistical knowledge required for computer applications	BBA[CA]	2020-21
5	B.Sc. (Micro)	1. The aim is to provide students with a solid foundation in the physiology, genetics, biochemistry, medical microbiology and agricultural microbiology of bacteria and viruses and an	B.Sc.(Microbiolog y)	2020-21
		2. The programme has a strong practical emphasis, providing students with the basic laboratory skills required for a career in either applied or research microbiology	B.Sc.(Microbiolog y)	2020-21
		3. Deepens the student's understanding of how viruses and bacteria survive, multiply, interact with their environment and cause disease through core studies on their structure,	B.Sc.(Microbiolog y)	2020-21
		4.To provide the appropriate environment to encourage the development of the students interest in general microbiology and to help them acquire appropriate	B.Sc.(Microbiolog y)	2020-21
		Develop advanced practical skills relevant to microbiology	B.Sc.(Microbiolog y)	2020-21

		6. An understanding of laboratory based investigations in microbiology applicable to studying microbial involvement in health, and disease	B.Sc.(Microbiolog y)	2020-21
		7. To increase the employability of students in various industries like food industry, pharmaceutical and agriculture based industry.	B.Sc.(Microbiolog y)	2020-21
		8. To increase the knowledge reagarding morphological & anatomical structure of plants	B.Sc.(Microbiolog y)	2020-21
		9.To increase the knowledge of classification system of plants according to various scientists	B.Sc.(Microbiolog y)	2020-21
		develop the practical skills relevant to botany	B.Sc.(Microbiolog y)	2020-21
6	M.Com.	1 :Knowledge of the advances in accountancy especially in the area of corporate and service sector.	M.COM(commerc e)	2020-21
		2: To make the students acquiented with the various managerail concepts including strategic management useful for success in business.	M.COM(commerc e)	2020-21
		3. Knowledge of the research methology in order to conduct in depth study of the subjects related to trade, commerce and Industry.	M.COM(commerc e)	2020-21
		4.Exposure to current problems in busienss enviornment.So cyber law study and human rights are included as part of curriulum.	M.COM(commerc e)	2020-21
		5. application of the current knowledge related to income tax including excie duty, service tax, GST and vat	M.COM(commerc e)	2020-21
		6. Knowledge of the capital market	M.COM(commerc e)	2020-21
		7. Ability to verify the methods of raising the finance its adverse and favourable effects.	M.COM(commerc e)	2020-21

7 M.Sc. (Micro	Provide students with sufficiently detailed information about the modern technologies used in diagnostics and research to enable them to apply these to complex problem solving in the investigation of disease	M.Sc.(Microbiolo gy)	2020-21
	2. Develop advanced practical skills relevant to microbiology, Interpret quantitative and qualitative data. Learn independently take responsibility for planning and organization of work both their own and in a team	M.Sc.(Microbiolo gy)	2020-21
	3. To communicate ideas, principles and theories effectively by oral, written and visual means	M.Sc.(Microbiolo gy)	2020-21
	4. Apply basic statistical and numerical skills to microbiological data. Use Information Technology e.g. Internet, Virtual Learning Resources, word processors and	M.Sc.(Microbiolo gy)	2020-21
	5. Work effectively and independently on a given project or task. Work effectively in small groups and teams towards a common Goal/outcome	M.Sc.(Microbiolo gy)	2020-21
	6. Students will acquire a number of transferable skills, including: design and execution of experiments (including working in a team); accessing information; interpretation of	M.Sc.(Microbiolo gy)	2020-21
	7. The final year aims to bring the student's understanding to the forefront of selected areas of microbial research, through lectures, directed studies and presentations as well as a lab-	M.Sc.(Microbiolo gy)	2020-21
	8. Increase the confidence level of students and make them a socially responsible person	M.Sc.(Microbiolo gy)	2020-21
	9.Get knowledge of fermentation process, design of bioreactor & its working	M.Sc.(Microbiolo gy)	2020-21
	10. Get knowlege of species & species evolution	M.Sc.(Microbiolo gy)	2020-21
	11.Study how to cultivate unculturable using various molecular methods & bioinformatics	M.Sc.(Microbiolo gy)	2020-21

12. Get knowlege of gene sequencing	M.Sc.(Microbiolo gy)	2020-21
13. Study various statistical methods under quantitative biology	M.Sc.(Microbiolo gy)	2020-21
14. Study cell organization & biochemistry	M.Sc.(Microbiolo gy)	2020-21
15. Get knowledge of instumentation & molecular physics	M.Sc.(Microbiolo gy)	2020-21
16.Study microbial metabolism & bioenergetics	M.Sc.(Microbiolo gy)	2020-21
17. Get practical knowledge of enzymology & microbial metabolism	M.Sc.(Microbiolo gy)	2020-21
18. Get knowledge of pharmaceutical & medical microbiology	M.Sc.(Microbiolo gy)	2020-21
19. Get knowlege of molecular biology	M.Sc.(Microbiolo gy)	2020-21
20. Get knowlege of microbial technology	M.Sc.(Microbiolo gy)	2020-21

## 2.6.1 :- Courses outcomes for All Courses

Id	Program	Sem	CourseCode	CourseName	Courses outcomes
1	B.Com	Semester –I	111	Compulsary English-I	1.Students got good pieces of prose and poetry so that they realize the beauty and communicative power of English.
2	B.Com	Semester –I	111	Compulsary English-I	2.Students got an exposure to native, cultural experiences and situations so that they Understood the importance and utility of English language.
3	B.Com	Semester –I	112	Financial Accounting- I	To impart knowledge of basic accounting concepts
4	B.Com	Semester –I	112	Financial Accounting- I	To create awareness about application of these concepts in business world
5	B.Com	Semester –I	113	Business Economics (Micro) - I	1. To impart knowledge of business economics
6	B.Com	Semester –I	113	Business Economics (Micro) - I	2. To understand basic theories, concepts of micro economics and their application
7	B.Com	Semester –I	114 (A)	Business Mathematics & Statistics- I	To familiar the students with applications of Statistics and Mathematics in Business

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8	B.Com	Semester –I	114 (A)	Business Mathematics & Statistics- I	2. The main outcome of this course is that the students are able to analyze the data by using some elementary statistical methods
9	B.Com	Semester –I	115 - B	BANKING & FINANCE- I	To provide knowledge of fundamentals of Banking
10	B.Com	Semester –I	115 - B	BANKING & FINANCE- I	2. To create awareness about various banking concepts
11	B.Com	Semester –I	116 - B	Insurance and Transport- I	To acquaint students with the concepts of Insurance
12	B.Com	Semester –I	116 - B	Insurance and Transport- I	To create awareness regarding basic knowledge about Life Insurance, Fire Insurance and Marine Insurance.
13	B.Com	Semester –I	116 - E	Business Environment & Entrepreneurship - I	To understand the concept of Business Environment and its aspects
14	B.Com	Semester –I	116 - E	Business Environment & Entrepreneurship - I	To examine personality competencies most common to majority of successful entrepreneurs and to show how these competencies can be developed or acquired
15	B.Com	Semester –I	116 - E	Business Environment & Entrepreneurship - I	To generate entrepreneurial inspiration through the study of successful Entrepreneurs
16	B.Com	Semester –I	115-C	Commercial Geography	1.Students Understood the scope and content of commercial g eography in relation to spatial distribution of agr iculture, forest resources and industrial production

17	B.Com	Semester –I	115-C	Commercial Geography	Acquainted the students about dynamic aspects of commercial geography.
18	B.Com	Semester –I	117-A	Additional English	1. Developed confidence to speak fluent English.
19	B.Com	Semester –I	117-A	Additional English	2.Developed the ability among students to use English language.
20	B.Com	Semester –II	121	Compulsary English-II	3.Students got an overall linguistic competence and communicative skills.
21	B.Com	Semester –II	121	Compulsary English-II	4.Students are developed in oral and written communicative skills, so that their employability enhances and English becomes the medium of their livelihood and personality.
22	B.Com	Semester –II	122	Financial Accounting- II	To impart knowledge of various software used in accounting
23	B.Com	Semester –II	122	Financial Accounting- II	2. To impart knowledge about final accounts of charitable trusts
24	B.Com	Semester –II	123	Business Economics (Micro) - II	1. To understand the basic concepts of micro economics.
25	B.Com	Semester –II	123	Business Economics (Micro) - II	2. To understand the tools and theories of economics for solving the problem of decision making by consumers and producers.
26	B.Com	Semester –II	124 (A)	Business Mathematics & Statistics- II	To introduce the basic concepts in Finance and Business     Mathematics and Statistics
27	B.Com	Semester –II	124 (A)	Business Mathematics & Statistics- II	To learn some elementary statistical methods for analysis of data
28	B.Com	Semester –II	125(B)	BANKING & FINANCE- II	1. To develop the working capability of students in banking sector
29	B.Com	Semester –II	125(B)	BANKING & FINANCE- II	2. To Make the Students aware of Banking Business and practices
30	B.Com	Semester –II	126 (B)	Insurance and Transport- II	1. To acquaint students with the concepts of transport.
31	B.Com	Semester –II	126 (B)	Insurance and Transport- II	To create awareness regarding basic knowledge about transportation system in India.

32	B.Com	Semester –II	126 (E)	Business Environment &	1. To understand Nature - Comparison between entrepreneurial
32	B.COIII	Semester -m	120 (E)	Entrepreneurship - II	and non-entrepreneurial,
33	B.Com	Semester –II	126 (E)	Business Environment & Entrepreneurship - II	2. To understand Role of Entrepreneurship in economy
34	B.Com	Semester –II	126 (E)	Business Environment & Entrepreneurship - II	3. Students are motivated to prepare their mind set for taking up entrepreneurship as career.
35	B.Com	Semester –II	125-C	Commercial Geography-II	3.Knowledge about dynamic nature and industrial field
36	B.Com	Semester –II	125-C	Commercial Geography-II	4. Awareness about the relationship between the geographical factors and economic activities
37	B.Com	Semester –II	127-A	Additional English-II	1.Developed the ability among students to use English language.
38	B.Com	Semester –II	127-A	Additional English-II	2.Initiated students into the Joy of Reading literary texts.
39	B.Com	Semester –III	231	Business Communication-I	To understand the concept, process and importance of communication.
40	B.Com	Semester –III	231	Business Communication-I	2. To develop business communication skills through the application and exercises.
41	B.Com	Semester –III	232	CORPORATE ACCOUNTING -I	1.Awareness about the conceptual aspect of corporate accounting.
42	B.Com	Semester –III	232	CORPORATE ACCOUNTING -I	2. To update the students with knowledge for preparation of final accounts of a company as per Schedule III of the Companies Act 2013
43	B.Com	Semester –III	233	BUSINESS ECONOMICS (MACRO)	1. Exposure to basic Micro Economic concepts and inculcate an analytical approach to the subject matter.
44	B.Com	Semester –III	233	BUSINESS ECONOMICS (MACRO)	2. Stimulated the students interest by showing the relevance and use of various economic theories.
45	B.Com	Semester –III	234	BUSINESS MANAGEMENT -I	1. To provide basic knowledge and understanding about various concepts of Business Management.
46	B.Com	Semester –III	234	BUSINESS MANAGEMENT -I	2.Understood the various functions of management
47	B.Com	Semester –III	235	ELEMENTS OF COMPANY LAW	1.Imparted with the knowledge of fundamentals of Company Law.
48	B.Com	Semester –III	235	ELEMENTS OF COMPANY LAW	2. Updated the knowledge of provisions of the Compan ies Act of 2013.
49	B.Com	Semester –III	236(B)	Banking and Finance-I	1.To provide the knowledge about Indian Banking System.

50	B.Com	Semester –III	236(B)	Banking and Finance-I	2.To create the awareness about the role of banking in economic development.
51	B.Com	Semester –III	236(E)	Cost and Works Accounting -I	To prepare learners to know and understand the basic concepts of cost.
52	B.Com	Semester –III	236(E)	Cost and Works Accounting -I	3. To enable students to prepare a cost sheet.
53	B.Com	Semester –IV	241	Business Communication-II	1.To acquire and develop good communication skills requisite for business correspondence.
54	B.Com	Semester –IV	241	Business Communication-II	2. To develop business communication skills through the application and exercises
55	B.Com	Semester –IV	242	CORPORATE ACCOUNTING -II	1. To acquaint the student with knowledge of corporate policies of investment for expansion and growth through purchase of stake in or absorption of smaller units.
56	B.Com	Semester –IV	242	CORPORATE ACCOUNTING -II	2. To introduce the students with the recent trends in the field of accountancy
57	B.Com	Semester –IV	243	BUSINESS ECONOMICS (MACRO)	1. Exposure to basic Micro Economic concepts and inculcate an analytical approach to the subject matter.
58	B.Com	Semester –IV	243	BUSINESS ECONOMICS (MACRO)	2. Stimulated the students interest by showing the relevance and use of various economic theories.
59	B.Com	Semester –IV	244	BUSINESS MANAGEMENT -II	1To provide the knowledge about Motivating the staff
60	B.Com	Semester –IV	244	BUSINESS MANAGEMENT -II	2. To provide the knowledge about Emerging trends in Business management
61	B.Com	Semester –IV	245	ELEMENTS OF COMPANY LAW-II	To develop general awareness among the students about management of company
62	B.Com	Semester –IV	245	ELEMENTS OF COMPANY LAW-II	2. To have a comprehensive understanding about Key managerial Personnel of company and their role in Company administration.
63	B.Com	Semester –IV	246(B)	Banking and Finance-II	1.To provide the knowledge of Cooperative Banking in India
64	B.Com	Semester –IV	246(B)	Banking and Finance-II	2.To analyze the functioning of Development Banking
65	B.Com	Semester –IV	246(E)	Cost and Works Accounting -II	To know the documents that are used in stores and how to calculate the issuing price of material.
66	B.Com	Semester –IV	246(E)	Cost and Works Accounting -II	To understand recent trends in cost accounting.
67	B.Com	Semester –V	351	Business Regulatory Framewor	1. To provide conceptual knowledge about the framework of business Law in India.

68	B.Com	Semester –V	351	Business Regulatory Framewor	2. To create awareness among the students about legal environment relating to the Contract Law, Partnership Act, Sale of Goods Act in India.
69	B.Com	Semester –V	246(E)	ADVANCED ACCOUNTING – I	To acquaint the student with knowledge about various concepts, objectives, and applicability of some important accounting standards.
70	B.Com	Semester –V	246(E)	ADVANCED ACCOUNTING – I	2. To update the students with knowledge for preparation of final accounts of a Banking Companies with the provisions of Banking Regulation Act 1949.
71	B.Com	Semester –V	353	Indian & Global Economic Development	1.To develop ability to analyze economic development process of India.
72	B.Com	Semester –V	353	Indian & Global Economic Development	2. To impart knowledge about the relevance of economic practices in modern competitive world.
73	B.Com	Semester –V	354	Auditing	To acquaint themselves about the Definition,     Nature,Objectives and Advantages of Auditing, Types of     Audit, Errors and Fraud, Audit Program, Notebook,     Working Paper, Internal Control, Check.
74	B.Com	Semester –V	354	Auditing	2. To get knowledge about concept of Checking, Vouching, Verification and Valuation, Types of Audit Report and Auditing Assurance Standard.
75	B.Com	Semester –V	355-B	Banking and Finance-Special Paper II	To acquaint the students with Indian Financial System and its various segments.
76	B.Com	Semester –V	355-B	Banking and Finance-Special Pa	2. To make the students aware about Indian Money Market.
77	B.Com	Semester –V	355 – e	Cost and Works Accounting. Special Paper II	2. To Introduce the cost accounting standards and the cost accounting standard board.
78	B.Com	Semester –V	356-B	Banking and Finance-Special Pa	To familiarize the Banking Laws and Practice in correlation to the Banking System in India.

79	B.Com	Semester –V	356-B	Banking and Finance-Special Pa	2. To understand the legal aspects of Banking transactions and its implication as a Banker and as a customer.
80	B.Com	Semester –V	356 –E	Cost and Works Accounting Special Paper III	To prepare learners to understand the basic techniques in Cost Accounting
81	B.Com	Semester –V	356 –E	Cost and Works Accounting Special Paper III	2. To understand the learner, application of Cost Accounting techniques in cost control and decision making.
82	B.Com	Semester –VI	361	Business Regulatory Framewor	1. To develop general awareness of Business Law among the students.
83	B.Com	Semester –VI	361	Business Regulatory Framewor	2. To understand the various statutes containing regulatory mechanism of business and its relevant provisions including different types of partnerships
84	B.Com	Semester –VI	362	ADVANCED ACCOUNTING – II	1. To acquaint the student with knowledge about the legal provisions regarding preparation and presentation of final accounts of Co-operative Societies.
85	B.Com	Semester –VI	362	ADVANCED ACCOUNTING – II	2. To understand the procedure and methods of analysis of financial statements.
86	B.Com	Semester –VI	363	Indian & Global Economic Deve	To develop ability of students to analyze economic development process of India.
87	B.Com	Semester –VI	363	Indian & Global Economic Deve	2. To acquaint the students with the knowledge of recent trends in Human Development Index.
88	B.Com	Semester –VI	364	Auditing & Taxation - II	To understand the basic concepts of Income Tax Act,     1961 and create awareness of direct taxation among the students.
89	B.Com	Semester –VI	364	Auditing & Taxation - II	2. To understand the income tax rules and regulations and its provisions.

90	B.Com	Semester –VI	365-B	Banking & Finance-Special Pape	1 .To familiarize students about various basic concepts of
				, ,	stock market.
91	B.Com	Semester –VI	365-B	Banking & Finance-Special Pape	2 .To analyse the types and process of stock trading.
92	B.Com	Semester –VI	365 – E	_	<ol> <li>To provide knowledge about the various methods of costing.</li> </ol>
93	B.Com	Semester –VI	365 – E	Cost and Works Accounting. Special Paper II	2. To understand the applications of different methods of costing in manufacturing and service industries.
94	B.Com	Semester –VI	366-B	Banking & Finance-Special Paper III	To familiarize students about concept and types cybercrimes in banking
95	B.Com	Semester –VI	366-B	Banking & Finance-Special Paper III	2. To understand the aspects of paying and collecting banker.
96	B.Com	Semester –VI	366 – E	Cost and Works Accounting Special Paper III	<ol> <li>To impart knowledge about Standard Costing and Variance Analysis</li> </ol>
97	B.Com	Semester –VI	366 – E	Cost and Works Accounting Special Paper III	2. To learn about pricing policy and its implementation.
98	B.A.(Geogra	Semester –I	11201	Physical Geography	1. To introduced the concept of physical geography
99	B.A.(Geogra phy)	Semester –I	11201	Physical Geography	2. To understand basic concept of physical geography
100	B.A. Politics	Semester –I	11161	Politics G1	1.Study in detail the political structure both Constitutional and Administrative.
101	B.A Economics	Semester –I	11151	G-1 Indian Economic Environme	1.To provide the students with the background of the Indian Economy with focus on contemporary issues like economic environment.
102		Semester –I	11151	G-1 Indian Economic Environme	2.Ability to develop an understanding of the economic

103	B.A. Marathi	Semester –I	11021	F.Y.B.A Marathi G1	1. Create, interest, about Literature.
104	B.A. Marathi	Semester –I	11021	F.Y.B.A Marathi G1	2.Aware the students about Marathi Literature, Marathi Language and Marathi Culture.
105	B.A. Marathi	Semester –I	11021	F.Y.B.A Marathi G1	3. Developed the sense of awareness about literature amongst student
106	B.A. ENGLISH	Semester –I	11001	Compulsory English F.Y.	Developed grammatical skills and accuracy
107	B.A. ENGLISH	Semester –I	11001	Compulsory English F.Y.	2. Developed writing skills and comprehension of literature
108	B.A. ENGLISH	Semester –I	11331	Optional English G1	1. Students are exposed to the basics of literature and language
109	B.A. ENGLISH	Semester –I	11331	_	2. Students are familiarized with different types of literature in English, the literary devices and terms so that they Understood the literary merit, beauty and creative use of language
110	B.A.(Geogra phy)	Semester –II	12201	Human Geography	1. To introduced the concept of Human geography
111	B.A.(Geogra phy)	Semester –II	12201	Human Geography	2. To understand basic concept ofHuman geography
112	B.A. Politics	Semester –II	12161		1. To familiarize students with the working of the Constitution of India. Study the political processes and the actual functioning of the political system.
113	Marathi	Semester –II		Modern Indian language Marathi	1-प्रगत भाषिक कौशल्य यांची क्षमता विकसित करणे
114	B.A Economics	Semester –II	11152	G-1 Indian Economic Environme	1.To familiarize the students with the recent developments in the Indian Economy
115	B.A Economics	Semester –II	11152	G-1 Indian Economic Environm	2.Ability to compare and contrast Indian Economy with other world economies.
116	B.A. Marathi	Semester –II	11022	F.Y.B.A Marathi G1	Developed vision of literature amongst student
117	B.A. Marathi	Semester –II	11022	F.Y.B.A Marathi G1	2.Attended various trends and type of Marathi Literature.
118	B.A. Marathi	Semester –II	11022	F.Y.B.A Marathi G1	3.Developed the capacity of linguistic competence in order to confront the wor global comptition

119	B.A. ENGLISH	Semester –II	12001	Compulsory English F.Y.	1.Students are familiarized with excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of English
120	B.A. ENGLISH	Semester –II	12001	Compulsory English F.Y.	2. Students are exposed to native cultural experiences and situations in order to develop human values and social awareness
121	B.A. ENGLISH	Semester –II	12331	Optional English G1	1. Students are made aware of the basic units of language so that they become aware of the technical aspects and their practical usage
122	B.A. ENGLISH	Semester –II	12331	Optional English G1	Students are prepared to go for detailed study and     Understooding of literature and language
123	B.A.(Geogra phy)	Semester –III	23202	Population Geography-I (S1)	1. To understand the history of population
124	B A (Geogra	Semester –III	23202	Population Geography-I(S-I)	2. To introduction of the basic concepts in population geography
125	B.A.(Geogra phy)	Semester –III	23203	Practical Geography-I( Scale & I	To Enable students to use various scales and Projection techniques in Geography
126	B.A.(Geogra phy)	Semester –III	23203	Practical Geography-I( Scale & I	To Explain the elementary and essential Principles of     Practical work in geography
127	B.A.(Geogra phy)	Semester –III	2304	Environmental Geography-I ( G	To create the awarness about dynamic environment among the student
128	B.A.(Geogra phy)	Semester –III	2304	Environmental Geography-I ( G	2. To acquaint the student with fundamental concepts of environment Geography for development in different areas.
129	B.A.(Geogra phy)	Semester –III	23207	Applied Course of Disaster Mar	To inculcate critical thinking and Problem- solving     abilities on disaster management
130	B.A.(Geogra phy)	Semester –III	23207	Applied Course of Disaster Mar	2. To Enable students to assess the situation and design plan for disaster management
131	B.A. Politics	Semester –III	23164	Politics G2	Study the concepts, ideas and theories in political theory. Role of different political ideologies and their impact in politics.

132	B.A. Politics	Semester –III	23162	Politics Special II	Complex relationship between the communication, media and power politics.
133	B.A. Politics	Semester –III	23165	Politics Special SEC	To acquaint students with the important features of the Constitution of India and with the basic framwork of Indian Government.
134	Economics	Semester –III	23153	G -2. Financial System-I	1.To understand the recent trends and developments in banking system.
135	Economics	Semester –III	23153	G -2. Financial System -I	2.To understand fundamentals of modern financial system.
136	B.A Economics	Semester –III	23151	S -1. Micro Economics -I	1.To develop an understanding about subject matter of Economics.
137	B.A Economics	Semester –III	23151	S -1. Micro Economics-I	2.To impart knowledge of Micro economics.
138	B.A Economics	Semester –III	23152	S -2. Macro Economics -I	1.To introduce students to the historical background of the emergence of Macro Economics
139	B.A Economics	Semester –III	23152	S -2. Macro Economics-I	2.To familiarize students with various concepts of national income
140	B.A Economics	Semester –III	23154	SEC Basic Concept of Research Methodology -I	1.To develop the understanding of the basic concept of research
141	B.A Economics	Semester –III	23154	SEC Basic Concept of Research Methodology -I	2.To identify various sources of information for data collection
142	B.A. Politics	Semester –III	23161	Politics Special I	Major traditions of thought that have shaped political discourse in different parts of the world. The great diversity of social contexts and philosophical visions.
143	B.A. Marathi	Semester –III	23021	Marathi Special Paper I	1. Made student aware of the historical tradition of Marathi Literature.
144	B.A. Marathi	Semester –III	23021	Marathi Special Paper I	Made student aware of Literature on the account of its background and inspiration behind literature and to give knowledge about it's nature
145	B.A. Marathi	Semester –III	23022	Marathi Special Paper II	1. Explore the process of development of the types of literature.
146	B.A. Marathi	Semester –III	23023	S.Y.B.A MarathiGeneral II	1.Introduced the student of the rules and regulations of the 'Shuddhalekhan'.
147	B.A. Marathi	Semester –III	23023	S.Y.B.A Marathi General II	2. Introduced the student of the rules and regulations of the 'Shuddhalekhan'

148	B.A. Marathi	Semester –III	23025	Marathi SEC2A	
149	B.A. ENGLISH	Semester –III	23001	Compulsory English S.Y.	1.Developed competence among the students for self-learning
150	B.A. ENGLISH	Semester –III	23001	Compulsory English S.Y.	2. Familiarize students with excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of English
151	B.A. ENGLISH	Semester –III	23333	Optional English G2	1. Students are exposed to the basics of short story as one of the literary forms
152	B.A. ENGLISH	Semester –III	23333	Optional English G2	2. Students are familiarized with different types of short stories in English
153	B.A. ENGLISH	Semester –III	23331	English Special I	1. Students are encouraged to Made a detailed study of a few sample masterpieces of English Drama from different parts of the world
154	B.A. ENGLISH	Semester –III	23331	English Special I	Interest is developed among the students to appreciate and analyze drama independently
155	B.A. ENGLISH	Semester –III	23332	English Special II	1. The students are familiarized with the terminology in poetry criticism (i.e. the terms used in critical analysis and appreciation of poems)
156	B.A. ENGLISH	Semester –III	23332	English Special II	Students are encouraged to Made a detailed study of a few sample masterpieces of English poetry
157	B.A. ENGLISH	Semester –III	23334	English SEC 2A	1. Enhancing the skill of using english for everyday communication
158	B.A. ENGLISH	Semester –III	23334	English SEC 2A	2. To acquaint the students with the verbal and non-verbal communication
159	B.A.(Geogra phy)	Semester –IV	24202	Population Geography-II (S1)	1. To introduce student to the Population policy of India and China
160	B.A.(Geogra phy)	Semester –IV	24202	Population Geography-II(S-I)	2. To understand the Health indicator in India
161	B.A.(Geogra phy)	Semester –IV	24203	Practical Geography-II( Cartographic Tech. surveying & Excursi.)(S2)	1. To introduce the Student to the basic and contemporary concept in geography

162	B.A.(Geogra phy)	Semester –IV	24203	Practical Geography-II( Cartographic Tech. surveying & Excursi.)(S2)	2. To introduced the latest concept regarding the modern cartography in the fild of geography
163	B.A.(Geogra phy)	Semester –IV	24204	Environmental Geography-II ( G-2)	To acquaint the about the past , present and future utility and potentials of natural resources
164	B.A.(Geogra phy)	Semester –IV	24204	Environmental Geography-II ( G-2)	2. To make aware student about the problem of environment its utilization and conservation in the view of sustainable development
165	B.A.(Geogra phy)	Semester –IV	24207	Applied Course of Travel and Tourism( SEC)	To develop basic framework to uderstand the various elements of tourism management
166	B.A.(Geogra phy)	Semester –IV	24207	Applied Course of Travel and Tourism( SEC)	2. To evaluate the roll of transport in Travel and Tourism industry
167	B.A.(Geogra phy)	Semester –IV	352201	Geography of india -I( S3)	1. To help the students to understand the inter relationship between the subject and the Society
168	B.A. Politics	Semester –IV	24164	Politics G2	2. Explained the evolution and usage of these concepts, ideas and theories with reference to individual thinkers both historically and analytically.
169	B.A. Politics	Semester –IV	24162	Politics Special II	Critical appraisal of practices of political image management, campaigns, propaganda and censorship.
170	B.A. Politics	Semester –IV	24165	Politics Special SEC	1. This paper focuses in detail on the political processes and the actual funtioning of the political system. It emphasizes on local influences that derive from social stratification of jatis, from language, religion, ethic and economic determinants and critically assesses its the political processes.
171	B.A Economics	Semester –IV	23153	G -2. Financial System-II	1.To provide the students the intricacies of Indian financial system for better financial decision making.
172	B.A Economics	Semester –IV	23153	G -2. Financial System -II	2.To provide the knowledge of various financial and non-financial institutions.
173	B.A Economics	Semester –IV	23151	S -1. Micro Economics -II	1.To help the students to prepare for varied competitive examinations

174	B.A Economics	Semester –IV	23151	S -1. Micro Economics-II	2.To develop an understanding of basic theories of micro economics and their application
175	B.A Economics	Semester –IV	23152	S -2. Macro Economics -II	1.To introduce students to the various instruments of monetary and fiscal policies
176	B.A Economics	Semester –IV	23152	S -2. Macro Economics-II	2.To introduce students to the role of monetary and fiscal policies in fulfilling the macroeconomic objectives of stability, full employment and growth.
177	B.A Economics	Semester –IV	23154	<b>SEC</b> Basic Concept of Research Methodology -II	1.To identify various sources of information for data collection
178	B.A Economics	Semester –IV	23154	<b>SEC</b> Basic Concept of Research Methodology -II	2.To develop the understanding of the conducting survey on various issues.
179	B.A. Politics	Semester –IV	24161	Politics Special I	1. The history of political thought as a series of critical, interconnected and open-ended conversations about the ends and means of the good life.
180	B.A. Marathi	Semester –IV	24021	Marathi Special Paper I	Made student aware of Literature on the account of its background and inspiration behind literature and to give knowledge about it's nature
181	B.A. Marathi	Semester –IV	24022	Marathi Special Paper II	1. Understood the scope of literature.
182	B.A. Marathi	Semester –IV	24023	S.Y.B.A General II	3. Explained scope of modern Marathi Literature.
183	B.A. Marathi	Semester –IV	24023	S.Y.B.A General II	4.Discussed about story, novel, Auto-biography and biography.
184	B.A. ENGLISH	Semester –IV	24001	Compulsory English S.Y.	Developed students' interest in reading literary pieces
185	B.A. ENGLISH	Semester –IV	24001	Compulsory English S.Y.	2. Exposed them to native cultural experiences and situations in order to develop human values and social awareness
186	B.A. ENGLISH	Semester –IV	24333	Optional English G2	Students are Enabledd to Understood the literary merit, beauty and creative use of language

187	B.A. ENGLISH	Semester –IV	24333	Optional English G2	2. Students acquired knowledge of some advanced units of language so that they become aware of the technical aspects and their practical usage
188	B.A. ENGLISH	Semester –IV	24331	English Special I	3. Students awareness is enhanced in the aesthetics of Drama and to empower them to evaluate drama independently
189	B.A. ENGLISH	Semester –IV	24331	English Special I	4. Students are acquainted and familiarized the students with the terminology in drama criticism (i.e.the term used in Critical Analysis and Appreciation of drama)
190	B.A. ENGLISH	Semester –IV	24332	English Special II	3.Students' awareness enhanced in the aesthetics of poetry
191	B.A. ENGLISH	Semester –IV	24332	English Special II	4. Students are empowered to read and appreciate poetry as a form of literature
192	B.A. ENGLISH	Semester –IV	34334	English SEC 2B	1. to develop interest among the students to interact in English
193	B.A. ENGLISH	Semester –IV	34334	English SEC 2B	to create opportunities to access exposure of speaking in various contexts.
194	B.A.(Geogra phy)	Semester –V	352201	Geography of india -I( S3)	2. To help the students to understand the recent trends in regional Studied
195	B.A.(Geogra phy)	Semester –V	35203	Practical Geography-I ( Techniques of Spatial analysis (S4)	To introduced the students with SOI toposheets and acquire the knowledge of toposheet interpretion
196	B.A.(Geogra phy)	Semester –V	35203	Practical Geography-I ( Techniques of Spatial analysis (S4)	2. To introduce the students with weather maps and acquire the knowledge of its interpretion
197	B.A.(Geogra phy)	Semester –V	35205	Geography of Turism -I G-3	1. To understand the types of tourism
198	B.A.(Geogra phy)	Semester –V	35205	Geography of Turism -I G-3	2. To gain knowledge different aspects of tourism geography
199	B.A.(Geogra phy)	Semester –V	35206	Reaserch Methodology -I (SEC)	1. To develop the understanding of the basic framework of sampling and data collection

200	B.A.(Geogra phy)	Semester –V	35206	Reaserch Methodology -I (SEC)	To develop the understanding of various sampling methods and techniques
201		Semester –V	35162	Politics Special IV	1. This paper deals with concepts and dimensions of International Relations and makes an analysis of different theories highlighting the major debates and differences with in the different theoretical paradigms. Approaches to the Study of International Relations
202	B.A. Politics	Semester –V	35162	Politics Special IV	2. Study the Changing Nature of the National Power. The dominant theories of power and the question of equity and justice, the different aspects of balance of power leading to the present situation of a unipolar world are included.
203	B.A Economics	Semester –V	35153	G3 Indian Economic Developme	1.To explain the characteristics of Developing and     Developed Countries
204	B.A Economics	Semester –V	35153	G3 Indian Economic Developme	2.To relate and recognize the concept and indicators of Economic Development.
205	B.A Economics	Semester –V	35151	S3 International Economics-I	1.To relate and recall the concepts of International Economics and International Trade.
206	B.A Economics	Semester –V	35151	S3 International Economics-I	2.To describe and apply the theories of international trade.
207	B.A Economics	Semester –V	35152	S4 Public Finance -I	1.To make students to analyze the role of Public Finance in Economic Development.
208	B.A Economics	Semester –V	35152	S4 Public Finance -I	2. To know the sources of Revenue, Expenditure and Debt of Govt. of India.
209	B.A Economics	Semester –V	35154	SEC Business Management-I	1.To develop Management of Business.
210	B.A Economics	Semester –V	35154	· ·	2.Leadership Skills- Ability to work in teams at the same time, ability to show leadership qualities

211	B.A. Politics	Semester –V	35163	Politics G3	This course will introduce the overall scope of the sub-discipline of Modern Political Analysis. The focus of the course will be on the Modern Political Analysis of Power. The emphasis is on the nature of power in modern societies. More in the form of organizations an social formations than as individual power.
212	B.A. Politics	Semester –V	35161	Politics Special III	This paper is an introductory course in Public Administration. The essence of Public Administration lies in its effectiveness in translating the governing philosophy into programmes, policies and activities and making it a part of community living.
213	B.A. Politics	Semester –V	35162	Politics Special IV	This paper deals with concepts and dimensions of International Relations and makes an analysis of different theories highlighting the major debates and differences with in the different theoretical paradigms. Approaches to the Study of International Relations
214	B.A. Marathi	Semester –V	35021	Marathi Special Paper III	3. Understood the process of origin Literature.
215	B.A. Marathi	Semester –V	35021	Marathi Special Paper III	4. Understood the language of literature.
216	B.A. Marathi	Semester –V	35022	Marathi Special Paper IV	1. Informed the students language and its scope and nature.
217	B.A. Marathi	Semester –V	35022	Marathi Special Paper IV	2. Understood various angles of study of Marathi Language.
218	B.A. Marathi	Semester –V	35023	T.Y.B.A Marathi General II	1.Discussed about story, novel, Auto-biography and biography.
219	B.A. Marathi	Semester –V	35023	T.Y.B.A Marathi General II	2.Explained importance of auto-biography and biography.
220	B.A. Marathi	Semester –V	35025	Marathi SEC2C (2)	
221	B.A. ENGLISH	Semester –V	35025	Compulsory English T.Y.	1. Introduced students to the best uses of language in literature.
222	B.A. ENGLISH	Semester –V	35025	Compulsory English T.Y.	2. Familiarized students with the communicative power of English

223	B.A. ENGLISH	Semester –V	35025	Compulsory English T.Y.	3. Enabled students to become competent users of English in real life situations
224	B.A. ENGLISH	Semester –V	35333	Optional English G3	1. students are made see how Indian English poetry expresses the ethos and culture of India
225	B.A. ENGLISH	Semester –V	35333	Optional English G3	2. Student Understood creative uses of language in Indian English Poetry
226	B.A. ENGLISH	Semester –V	35333	Optional English G3	3. Introduced students to some advanced areas of language study
227	B.A. ENGLISH	Semester –V	35331	English Special III	1. students familiarized to the basics of novel as a literary form
228	B.A. ENGLISH	Semester –V	35331	English Special III	2. students are exposed to the historical development and nature of novel
229	B.A. ENGLISH	Semester –V	35331	English Special III	3. students are made aware of different types and aspects of novel
230	B.A. ENGLISH	Semester –V	35332	English Special IV	1. students made aware of selected approaches to literature
231	B.A. ENGLISH	Semester –V	35332	English Special IV	2. students are familiarized to the basics of literary criticism
232	B.A. ENGLISH	Semester –V	35332	English Special IV	3. students are made aware of the nature and historical development of criticism
233	B.A. ENGLISH	Semester –V	35334	English SEC 2C	1. to develop overall personality of the students.
234	B.A. ENGLISH	Semester –V	35334	English SEC 2C	2. to equip the students with social skills.
235	B.A.(Geogra phy)	Semester –VI	36201	Geography of india -II( S3)	1. To acquaint the student with geography of our nation
236	B.A.(Geogra phy)	Semester –VI	36201	Geography of india -II( S3)	2. To make the student aware of the magnitude of problems and prospectus at national Level
237	B.A.(Geogra phy)	Semester –VI	36203	Practical Geography-II ( Techniques of Spatial analysis, surveying & Excursi./ Villege/ Project Report (S4)	To understand the concept Geographical data and its basic analysis for students

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238	B.A.(Geogra phy)	Semester –VI	36203		2. To understand the concept of testing and application of hypothesis
239	B.A.(Geogra phy)	Semester –VI	36205	Geography of Tourism -II (G-3	1. To understand the history of Tourism
240	B.A.(Geogra phy)	Semester –VI	36205		2. To introduced the students to the basic concepts in tourism geography
241	B.A.(Geogra phy)	Semester –VI	36206	Reaserch Methodology -II (SEC)	To identify various Sources of information for data     Collection
242	B.A.(Geogra phy)	Semester –VI	36206	Reaserch Methodology -II (SEC)	2. Understanding of the Conducting survey on various issues and develop the report writing skill of student
243	B.A Economics	Semester –VI	35153	G3 Indian Economic Developmo	1.To describe and explain the process of Economic Planning
244	B.A Economics	Semester –VI	35153	G3 Indian Economic Developmo	2.To describe and explain the relation between Economic Development and Environment.
245	B.A Economics	Semester –VI	35151	S3 International Economics-II	1. Ability to relate and explain the concept of Exchange Rate and Foreign Exchange Market.
246	B.A Economics	Semester –VI	35151	S3 International Economics-I	2. Ability to describe the trends in Growth, Composition and Direction of India's Foreign Trade.
247	B.A Economics	Semester –VI	35152	S4 Public Finance -II	1.To describe and analyze the concept of Deficit Financing and its effects.
248	B.A Economics	Semester –VI	35152	S4 Public Finance -II	2.To explain and assess the components and instruments of Fiscal Policy
249	B.A Economics	Semester –VI	35154	SEC Business Management-II	1.Analytical Skills – Ability to analyze data collected and interpret in the most logical manner
250	B.A Economics	Semester –VI	35154	SEC Business Management-II	2.Project Report Writing Skills- Ability to comprehend and illustrate/demonstrate findings

251	B.A. Politics	Semester –VI	35163	Politics G3	Students are also expected to understand different forms of justifications of power and the role of ideology in this regard.  State will be studied as a repository of power in society while class and patriarchy are two instance of how the nature of power is shaped by social factors
252	B.A. Politics	Semester –VI	35161	Politics Special III	The paper covers personnel public administration in its historical context thereby proceeding to highlight several of its categories, which have developed administrative salience and capabilities to deal with process of change. The recent developments and particularly the emergence of New Public Administrations are incorporated within the larger paradigm of democratic legitimacy.
253	B.A. Politics	Semester –VI	35162	Politics Special IV	2. Study the Changing Nature of the National Power. The dominant theories of power and the question of equity and justice, the different aspects of balance of power leading to the present situation of a unipolar world are included.
254	B.A. Politics	Semester –VI	35165	Politics Special SEC	This course is and introduction to the political process in Maharashtra with special reference to regionalism subregionalism and Samyukta Maharashtra Movement. The aim of the course is that students are expected to understand both the historical evolution of Maharashtra's politics and different analyses of politics of the state.
255	B.A. Marathi	Semester –VI	35021	Marathi Special Paper III	1 . Understood the artistic value of literature.
256	B.A. Marathi	Semester –VI	35021	Marathi Special Paper III	2.Know the co-relation between Literature & Society
257	B.A. Marathi	Semester –VI	35022	Marathi Special Paper IV	1. Informed the students about the descriptive, Historical and comparative method, scope and difference of language.
258	B.A. Marathi	Semester –VI	35022	Marathi Special Paper IV	2. Made aware of the students about system of Marathi Language.
259	B.A. Marathi	Semester –VI	35025	Marathi SEC2D (2)	

260	B.A. ENGLISH	Semester –VI	36001	Compulsory English T.Y.	Exposed students to varied cultural experiences through literature
261	B.A. ENGLISH	Semester –VI	36001	Compulsory English T.Y.	Contributed to their overall personality development by improving their communicative and soft skills
262	B.A. ENGLISH	Semester –VI	36333	Optional English G3	1. prepared students to go for detailed study and Understooding of literature and language
263	B.A. ENGLISH	Semester –VI	36333	Optional English G3	2.students are exposed to some of the best samples of Indian English Poetry
264	B.A. ENGLISH	Semester –VI	36331	English Special III	1. literary sensibility and sense of cultural diversity is developed in students
265	B.A. ENGLISH	Semester –VI	36331	English Special III	2.students are exposed to some of the best examples of novel
266	B.A. ENGLISH	Semester –VI	36331	English Special III	3. Developed the skills to critically examine novels independently
267	B.A. ENGLISH	Semester –VI	36332	English Special IV	1. students are familiarized with the significant critical approaches and terms
268	B.A. ENGLISH	Semester –VI	36332	English Special IV	2. students are encouraged to interpret literary works in the light of the critical approaches
269	B.A. ENGLISH	Semester –VI	36332	English Special IV	3. Developed students' aptitude for critical analysis
270	B.A. ENGLISH	Semester –VI	36334	English SEC 2D	1. to train the students interpersonal skills.
271	B.A. ENGLISH	Semester –VI	36334	English SEC 2D	2. to enhance leadership qualities.
272	M.Com	Semester –I	101	Management Accounting	1. The objective of the course is to Enabled students to acquire sound Knowledge of concepts, methods and techniques of management accounting.
273	M.Com	Semester –I	101	Management Accounting	2. Made the students develop competence with their usage in managerial decision making and control
274	M.Com	Semester –I	103	Advanced Accounting I	1.Lay a theoretical foundation of Accounting and A ccounting Standards.
275	M.Com	Semester –I	103	Advanced Accounting I	2. Gain ability to solve problems relating to Compa ny Accounts, Valuations and special types of situations.
276	M.Com	Semester –I	103	Advanced Accounting I	3. Made the students acquiented with the procedure, Pratice and Regulation of Accountancy

277	M.Com	Semester –I	104	Income Tax II	1.Gain knowledge of the provisions of Income - tax including Rules pertaining there to, relating to the following topics.
278	M.Com	Semester –I	104	Income Tax II	2.Developed ability to calculate taxable Income of 'Individual', 'Hindu Undivided Family' and 'Firm' assesses.
279	M.Com	Semester –II	201	Financial Analysis and Control	1.The objective of the course is to Enabled st udents to acquire sound knowledge of concepts, methods and techniques of management accounting
280	M.Com	Semester –II	201	Financial Analysis and Control	2. Made the students develop competence with their usage in managerial decision making and control.
281	M.Com		202	Industrial Economics	1.Studied the basic concepts of Industrial Economics .
282	M.Com	Semester –II	202	Industrial Economics	2.Studied the significance and problems of Industrilization.
283	M.Com	Semester –II	202	Industrial Economics	3.Studied the impact of Industrialization on Indian Economy.
284	M.Com	Semester –II	203	Specialized Areas In Accounting III	1.Developed competency of students to solve problems relating Special areas in accounting including accounting for Services Sector.
285	M.Com	Semester –II	203	Specialized Areas In Accounting III	2.Understood of Financial Reporting Practices.
286	M.Com	Semester –II	203	Specialized Areas In Accounting III	3 students are familiarized with procedure of accounting for Taxation.
287	M.Com	Semester –II	204	Business Tax assesment and Planning IV	1.Provided Understooding of Direct Taxes including Rules pertaining there to and their application to different business situations.
288	M.Com	Semester –II	204	Business Tax assesment and Planning IV	2. students are understood principles underlying the Service Tax .
289	M.Com	Semester –II	204	Business Tax assesment and Planning IV	3.Understood basic concepts of VAT, Excise Duty and Customs Duty
290	M.Com	Semester –III	301	Business Finance	1.students acquired sound knowledge of concepts, nature and structure of business finance.
291	M.Com	Semester –III	302	Research Methodology for Business	1.the students are acquainted with the areas of Business Research Activities.
292	M.Com	Semester –III	302	Research Methodology for Business	2.Enhanced capabilities of students to conduct the research in the field of business and social sciences.

293	M.Com	Semester –III	302	Research Methodology for	3.Enabled students, in developing the most appropri ate					
293	WI.COIII	Semester -m	302	Business	methodology for their research studies.					
294	M Com	Semester –III	302	Research Methodology for	4.Made them familiar with the art of using diffrent research					
294	M.Com	Semester –III	302	Business	methods and techniques.					
295	M Com	Compostor III	303	Advanced Auditing V	1. Imparted knowledge and develop Understooding of methods					
295	M.Com	Semester –III	303	Advanced Additing v	of auditing and their application.					
296	M.Com	Semester –III	304	Specialized Areas In Auditing VI	1. Imparted knowledge and develop Understooding of methods					
296	W.Com	Semester –III	304	Specialized Areas in Additing Vi	of audit in Specialized areas.					
297	M.Com	Semester –IV	401	Capital Market and Financial	1. Enabled students to acquire sound knowledge, concept and					
297	IVI.COM	Semester –iv	401	services	structure of capital market and financial services.					
298	M.Com	Compostor IV	402	Industrial Economics						
298	IVI.COM	Semester –IV	402	Environment	1.Studied the basic concepts of Industrial Finance					
200	N4 Care	Compostor IV	402	Industrial Economics	2. Churchiand the officeto of New Food ania Delian.					
299	M.Com	Semester –IV	402	Environment	2. Studied the effects of New Economic Policy.					
200	N4 C	Compostor IV	402	Industrial Economics	2 Charlied the immediately and a fine and a					
300	M.Com	Semester –IV	402	Environment	3. Studied the impact of Labor reforms on Industries.					
				Recent Advances In Accounting,						
301	M.Com	Semester –IV	403	Taxation and Auditing VII	1. Up-dated the students with latest developments in the Subject					
									raxation and Additing VII	
				Recent Advances In Accounting,	2. Inculcated the habit of referring to various periodicals and					
302	M.Com	Semester –IV	403	<u> </u>	publication s in the given subject, apart from text books and					
				Taxation and Auditing VII	reference books					
				Recent Advances In Accounting,	3.Developed the ability to read, Understood, interpret and					
303	M.Com	Semester –IV	403	Taxation and Auditing VII	summarize various articles from newspapers, journals					
				Taxation and Additing VII	summarize various articles from newspapers, journals					
					1: Stuents are understood Strategic management in framing the					
304	M.Com	Semester –IV	102	Strategic Management	policies and administration in adverse condition of the business.					
					policies and administration in adverse condition of the business.					
305	M.Com	Semester –IV	103	Advanced accounting	1. Students acquiented with the procedure, Pratice and					
303	IVI.COITI	Jeillestel –IV	103	Advanced accounting	Regulation of Accountancy					
				Business Tax assessment and	1:Taxation procedure policies and regulations are imporant					
306	M.Com	Semester –IV	204	planning	aspect in business which is core value of the subject.					
				Pigining						
307	M.Com	Semester –IV	301	Business Finance	1: The Students are known about financial aspects of the					
307	WI.COIII	Jennester -iv	301	Dusiness i mance	business.					

308	M.Com	Semester –IV	202	Industrial Economics	1: The Economical aspects related to industries are inculcated for the post graduate studnet in the curriculum.
309	M.Com	Semester –IV	403	Recent Advances in Accounting, Taxation & Auditing.	1. To enable the students to be abreast with the latest advances in the field of Accounting.
310	M.Com	Semester –IV	401	Capital Market and Financial Services	Student acquiented with the capital market so that they can enculcate the knowledge of raising the capital.
311	M.Com	Semester –IV	404	Project Work	1: The Students are developed anaylitical mind in the subject
312	BBA[CA]	Semester –I	CA-101	Business Communication	<ol> <li>To understand what is the role the role of communication in personal and business world.</li> <li>To understand system and communication and their utility</li> <li>To develop proficiency in how to write business letters and other communications in required.</li> </ol>
313	BBA[CA]	Semester –I	CA-102	Principles of Management	To examining how various management principles     To develop managerial skills among the students.     To understand basic concept regarding org. Business Administration.
314	BBA[CA]	Semester –I	CA-103	C Language	<ol> <li>Student learned Decision making, structure,</li> <li>Union &amp; all basics of C programming language,</li> <li>Explore algorithmic approaches to problem solving.</li> <li>Develop modular programs using control structures and arrays in 'C'.</li> </ol>
315	BBA[CA]	Semester –I	CA-104	Database Management System	<ol> <li>Solve real world problems using appropriate set, function, and relational models.</li> <li>Design E-R Model for given requirements and convert the same into database tables.</li> <li>Use SQL.</li> </ol>

316	BBA[CA]	Semester –I	CA-105	Statistics	<ol> <li>To understand role and importance of statistics in various business situations</li> <li>To develop skills related with basic statistical technique</li> <li>Develop right understanding regarding regression, correlation and data interpretation</li> </ol>
317	BBA[CA]	Semester –I	CA-106	Computer Laboratory Based on 103 &104 (2 credits each)	Students will be able to:  1 Devise pseudocodes and flowchart for computational problems.  2 Write, debug and execute simple programs in 'C'.  3 Create database tables in Oracles.  4 Write and execute simple, nested queries.  Guidelines
318	BBA[CA]	Semester –I	CA-107	Add-On (PPA) (30 Hours)	<ol> <li>Explore algorithmic approaches to problem solving.</li> <li>Develop modular programs using control structures and arrays.</li> <li>Design and analysis of major classes of algorithm.</li> </ol>
319	BBA[CA]	Semester –II	CA-201	Organization Behavior & Human Resource Management	<ol> <li>To understand basic concepts of OB and HRM.</li> <li>To make aware students about traditional &amp; modern methods of procurement &amp; development in organization.</li> <li>To know the major trends in HRM &amp; OB</li> </ol>
320	BBA[CA]	Semester –II	CA-202	Financial Accounting	1.To develop right understanding regarding role and importance of monetary and financial transactions in business 2. To cultivate right approach towards classifications of different transactions and their implications 3. To develop proficiency preparation of basic financial as to how to write basis accounting statement - Trading and P&L

321	BBA[CA]	Semester –II	CA-203	Business Mathematics	1.To understand role and importance of Mathematics in various     business situations and while developing softwares.     2.To develop skills related with basic mathematical technique.
322	BBA[CA]	Semester –II	CA-204	Relational Database	<ol> <li>Enables students to understand relational database concepts and transaction management concepts in database system.</li> <li>Enables student to write PL/SQL programs that use: procedure, function, package, cursor and trigger.</li> </ol>
323	BBA[CA]	Semester –II	CA-205	Web Technology HTML-JS- CSS	1.To know & understand concepts of internet programming. 2. To understand how to develop web based applications using JavaScript.
324	BBA[CA]	Semester –II	CA-206	Computer Laboratory Based on 204 & 205(2 credits each)	Students will be able to: 1.Practical and Actual working of constructing programs is done by students.
325	BBA[CA]	Semester –II	CA_207	Add-On (Advance C) (30 Hours)	1 Develop modular programs using control structures, pointers, arrays, strings and structures 2 Design and develop solutions to real world problems using C.
326	BBA[CA]	Semester –III	CA-301	Digital Marketing	<ol> <li>The aim of this syllabus is to give knowledge about using digital marketing in and as business.</li> <li>To make SWOT analysis, SEO optimization and use of various digital marketing tools.</li> </ol>

327	BBA[CA]	Semester –III	CA-302	Data Structure	To understand the concepts of ADTs     To learn linear data structures – lists, stacks, and queues     To understand sorting, searching and hashing algorithms     To apply Tree and Graph structures
328	BBA[CA]	Semester –III	CA-303	Software Engineering	<ol> <li>To understand System concepts.</li> <li>To understand Software Engineering concepts.</li> <li>To understand the applications of Software Engineering concepts and Design in Software development.</li> </ol>
329	BBA[CA]	Semester –III	CA-304	РНР	<ol> <li>Understand how server-side programming works on the web.</li> <li>Using PHP built-in functions and creating custom functions</li> <li>Understanding POST and GET in form submission.</li> <li>How to receive and process form submission data.</li> <li>Read and process data in a MySQL database.</li> </ol>
330	BBA[CA]	Semester –III	CA-305	Big data	<ol> <li>To enable learners to develop expert knowledge and analytical skills in current and developing areas of analysis statistics, and machine learning</li> <li>To enable the learner to identify, develop and apply detailed analytical, creative, problem solving skills.</li> <li>Provide the learner with a comprehensive platform for career development, innovation and further study.</li> </ol>

331	BBA[CA]	Semester –III	CA-306	Computer Laboratory Based on 302, 304 and 305 (2 credits each)	Students will be able to: 1.Practical and Actual working of constructing programs is done by students.
332	BBA[CA]	Semester –III	307 AECC	Environment Awareness	To provide an opportunities to acquire the knowledge, values, attitudes, commitment, and skills needed to protect and improve the environment     To develop conscious towards a cleaner and better managed environment
333	BBA[CA]	Semester –IV	CA-401	Networking	<ol> <li>To gain knowledge about Computer Networks concepts.</li> <li>To know about working of networking models, addresses, transmission medias and connectivity devices.</li> <li>To acquire information about network security and cryptography.</li> </ol>
334	BBA[CA]	Semester –IV	CA-402	Object Oriented Concepts Through CPP	<ol> <li>Acquire an understanding of basic object-oriented concepts and the issues involved in effective class design.</li> <li>Enable students to write programs using C++ features like operator overloading, constructor and destructor, inheritance, polymorphism and exception handling.</li> </ol>
335	BBA[CA]	Semester –IV	CA-403	Operating System	<ol> <li>To know the services provided by Operating System</li> <li>To know the scheduling concept</li> <li>To understand design issues related to memory management and various related algorithms.</li> <li>To understand design issues related to File management and various related algorithms</li> </ol>

336	BBA[CA]	Semester –IV	CA-404	Advance PHP	<ol> <li>To know &amp; understand concepts of internet programming.</li> <li>Understand how server-side programming works on the web.</li> <li>Understanding How to use PHP Framework (Joomla / Druple)</li> </ol>
337	BBA[CA]	Semester –IV	CA-405	Project	Students will be able to: 1. Detailed knowledge about SDLC ,ERD,DFD,Feasibility study, Designing Forms, Data Base Connectivity done by students.
338	BBA[CA]	Semester –IV	CA-406	Computer Laboratory Based on 402,404 (2 credits each)	Students will be able to: 1.Practical and Actual working of constructing programs is done by students.
339	BBA[CA]	Semester –IV	CA-407	ADD-On (30 Hours) Jquery	<ol> <li>Learn how to enhance their web application using the JQuery script library.</li> <li>Jquery can enhance productivity.</li> <li>Client side data binding techniques.</li> </ol>
340	BBA[CA]	Semester –V	CA-501	Cyber Security	<ol> <li>Have a good understanding of Cyber Security and the Tools.</li> <li>Identify the different types of Cyber Crimes.</li> <li>Have a good understanding of Cyber laws</li> <li>To develop Cyber forensics awareness.</li> <li>Identify attacks, security policies and credit card frauds in mobile and Wireless Computing Era</li> </ol>
341	BBA[CA]	Semester –V	CA-502	OOSE	<ol> <li>Students will be able to give Design Specifications for Project.</li> <li>Students will acquire Knowledge in Basic Modeling.</li> <li>Students will acquire Project Management Skills.</li> </ol>

342	BBA[CA]	Semester –V	CA-503	Core Java	<ol> <li>Able to solve real world problems using OOP techniques.</li> <li>Able to understand the use of abstract classes.</li> <li>Able to solve problems using java collection framework and I/o classes.</li> <li>Able to develop multithreaded applications with synchronization.</li> <li>Able to develop applets for web applications.</li> <li>Able to design GUI based applications</li> </ol>
343	BBA[CA]	Semester –V	CA-504	Python	<ol> <li>Define and demonstrate the use of built-in data structures "lists" and "dictionary".</li> <li>Design and implement a program to solve a real world problem.</li> <li>Design and implement GUI application and how to handle exceptions and files.</li> </ol>
344	BBA[CA]	Semester –V	CA-505	Project	Students will be able to: 1. Detailed knowledge about SDLC ,ERD,DFD,Feasibility study, Designing Forms, Data Base Connectivity done by students.
345	BBA[CA]	Semester –V	CA-506	Computer Laboratory Based on 503 and 504(2 credits each)	Students will be able to: Practical and Actual working of constructing programs is done by students.
346	BBA[CA]	Semester –V	CA_507	Add on Course-IOT(30 Hours)	Students will be able  1. To explain key technologies, smart objects, IoT Architecture and security in Internet of Things.  2. To illustrate the role of IoT protocols for efficient network communication.  3. To understand IoT platform such as Arduino Uno.

347	BBA[CA]	Semester –VI	CA-601	Recent Trends in Information Technology(Tutorial/Assignment)	On completion of the course, student will be able 1. To discuss the basic concepts AI. 2. To apply basic, intermediate and advanced techniques to mine the data. 3. To provide an overview of the concept of Spark programming.
348	BBA[CA]	Semester –VI	CA-602	Software Testing	<ol> <li>Students will be introduced to testing tools.</li> <li>Students will acquire Knowledge of Basic SQA.</li> <li>Students will be able to design basic Test Cases.</li> </ol>
349	BBA[CA]	Semester –VI	CA-603	Advanced Java	<ol> <li>Students will know the concepts of JDBC Programming.</li> <li>Students will know the concepts of Multithreading and Socket Programming.</li> <li>Students will know the concepts of Spring and Hibernate.</li> <li>Students will develop the project by using JSP and JDBC.</li> <li>Students will develop applications in Spring and hibernate.</li> </ol>
350	BBA[CA]	Semester –VI	CA-604	Dot Net framework	<ol> <li>Use the features of Dot Net Framework along with the features of VB, C# and ASP</li> <li>Design and develop window based and web based .NET applications.</li> <li>Design and develop a Website.</li> <li>Design and Implement database connectivity using ADO.NET for VB, C# and ASP.</li> </ol>
351	BBA[CA]	Semester –VI	CA-605	Project	Students will be able to: 1. Detailed knowledge about SDLC ,ERD,DFD,Feasibility study, Designing Forms, Data Base Connectivity done by students.

352	BBA[CA]	Semester –VI	CA-606	Computer Laboratory Based on 603 and 604(2 credits each)	Students will be able to: 1.Practical and Actual working of constructing programs is done by students.
353	BBA[CA]	Semester –VI	CA-607	Add on Course-Soft Skills Training	<ol> <li>It helps participants to communicate effectively and to carry themselves confidently.</li> <li>They also learn how to identify and overcome the barriers in interpersonal relationships.</li> </ol>
354	B.Sc(CS)	Semester –I		Problem solving using Computer & C Programming	Students will be able to:  1. Explore algorithmic approaches to problem solving.  2. Develop modular programs using control structures and arrays in 'C'.
355	B.Sc(CS)	Semester –I	CS-112	Database Management system	student will be able to—  1 Solve real world problems using appropriate set, function, and relational models.  2 Design E-R Model for given requirements and convert the same into database tables.  3 Use SQL.
356	B.Sc(CS)	Semester –I	CS-113	Practical Course based on CS111 and CS112	students will be able to:  1 Devise pseudocodes and flowchart for computational problems.  2 Write, debug and execute simple programs in 'C'.  3 Create database tables in postgreSQL.  4 Write and execute simple, nested queries.  Guidelines:

357	B.Sc(CS)	Semester –I	MTC-111	Matrix Algebra	student will be able to:  1) A students should be able to work with graphs and identify certain parameters and properties of the given graphs.  2) A students should be able to perform certain algorithms, justify why these algorithms work, and give some estimates of the running times of these algorithms.
358	B.Sc(CS)	Semester –I	MTC-112	Discrete Mathematics	student will be able to:  1) A students should be able to solve basic exercises of the type: given a graph with properties X, prove that the graph also has property Y.  2) A students should develop an appreciation for the literature on the subject and be able to read and present results from the literature.
359	B.Sc(CS)	Semester –I	MTC-113	Mathematics Practical based on MTC-112 AND MTC 111	student will be able to:  1)A students should be able to write cohesive and comprehensive solutions to exercises and be able to defend their arguments.
360	B.Sc(CS)	Semester –l	ELC-111	Semiconductor Devices and Basic ElectronicSystems	To study various types of semiconductor devices     To study elementary electronic circuits and systems
361	B.Sc(CS)	Semester –I	ELC-112	Principles of Digital Electronic	To get familiar with concepts of digital electronics     To learn number systems and their representation

362	B.Sc(CS)	Semester –I	ELC-113	Electronics Lab based on ELC-111 and ELC-112	To understand basic logic gates, Boolean algebra and K-maps     To study arithmetic circuits, combinational circuits and sequential circuits
363	B.Sc(CS)	Semester –I	CSST-111	Descriptive Statistics	Student will be able to— 1) To tabulate and make frequency distribution of the given data. 2) To use various graphical and diagrammatic techniques and interpret.
364	B.Sc(CS)	Semester –I	CSST-112	Mathematical Statistics	Student will be able to— 1) To compute various measures of central tendency, dispersion, Skewness and kurtosis. 2) To fit the Binomial and Poisson distributions. 3) To compute the measures of attributes.
365	B.Sc(CS)	Semester –I	CSST-113	Statistics Practical based on CSST-111 and CSST-112	Student will be able to—  1) The process of collection of data, its condensation and representation for real life data.  2) To study free statistical softwares and use them for data analysis in projec
366	B.Sc(CS)	Semester –II	CS-121	Advanced C-Programming	Student will be able to :-  1 Develop modular programs using control structures, pointers, arrays, strings and structures  2 Design and develop solutions to real world problems using C.

367	B.Sc(CS)	Semester –II	CS-122	RDBMS	Student will be able to—  1 Design E-R Model for given requirements and convert the same into database tables.  2 Use database techniques such as SQL & PL/SQL.  3 Explain transaction Management in relational database System.  4 Use advanced database Programming concepts
368	B.Sc(CS)	Semester –II	CS-123	Computer Science Lab Course based on 121 and 122	Students will be able to:  1Write, debug and execute programs using advanced features in 'C'.  2 To use SQL & PL/SQL.  3 To perform advanced database operations
369	B.Sc(CS)	Semester –II	MTC-121	Linear Algebra	1.A student should be able to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations, terminology and recognize basic geometrical figures and graphical displays, state important facts resulting from their studies.  2 A student should get a relational understanding of mathematical concepts and concerned structures, and should be able to follow the patterns involved, mathematical reasoning.

370	B.Sc(CS)	Semester –II	MTC-122	Graph Theory	1.A student should get adequate exposure to global and local concerns that explore them many aspects of Mathematical Sciences.  2. A student be able to apply their skills and knowledge ,that is, translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.
371	B.Sc(CS)	Semester –II	MTC-123	Lab Course based on MTC- 121 and MTC 122	1. A student should be made aware of history of mathematics and hence of its past, present and future role as part of our culture.  2. A student be able to apply their skills and knowledge ,that is, translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.
372	B.Sc(CS)	Semester –II	ELC-121	InstrumentationSystems	<ol> <li>To study Instrumentation System</li> <li>To study various blocks of Instrumentation System</li> <li>To study Smart Instrumentation System</li> </ol>
373	B.Sc(CS)	Semester –II	ELC-122		To get familiar digital sequential circuits     To study Basic computer Organization     To study Memory architecture

374	B.Sc(CS)	Semester –II	ELC-123	Lab Course based on ELC- 121 and ELC-122	<ol> <li>To study Instrumentation System</li> <li>To study various blocks of Instrumentation System</li> <li>To study Smart Instrumentation System</li> <li>To get familiar digital sequential circuits</li> <li>To study Basic computer Organization</li> <li>To study Memory architecture</li> </ol>
375	B.Sc(CS)	Semester –II	CSST-121	Methods of Applied Statistics	Student will be able to :-  1 To fit various regression models and to find best fit.  2 To fit the Normal distribution.
376	B.Sc(CS)	Semester –II	CSST-122	Continuous Probability Dist. & Testing of hypothesis	Students will be able to 1) To understand the relationship between two variables using scatter plot. 2) To compute coefficient of correlation, coefficient of regression. 3) To understand the trend in time series and how to remove it.
377	B.Sc(CS)	Semester –II	CSST-123	Lab Course based on CSST- 121 and CSST-122	Student will be able to :-  1. To generate model sample from given distributions.  2. To understandthe importance and functions of different statistical organizations in the development of nation.

378	B.Sc(CS)	Semester –III	CS-231		<ol> <li>To use well-organized data structures in solving various problems.</li> <li>To differentiate the usage of various structures in problem solution.</li> <li>Implementing algorithms to solve problems using appropriate data structures.</li> </ol>
379	B.Sc(CS)	Semester –III	CS-232	software Enginering	<ol> <li>Compare and chose a process model for a software project development.</li> <li>Identify requirements analyze and prepare models.</li> <li>Prepare the SRS, Design document, Project plan of a given software system</li> </ol>
380	B.Sc(CS)	Semester –III	CS-233	Practical Course based on CS 232 and CS 233	1.Practical and Actual working of constructing data structure programs is done by students. 2.The students work independently throughout the project work including: problem identification, information searching, literature study, design and analysis, and the final reporting
381	B.Sc(CS)	Semester –III	MTC-231	Groups & Coding Theory	1. A student should be able to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations, terminology and recognize basic geometrical figures and graphical displays, state important facts resulting from their studies

382	B.Sc(CS)	Semester –III	MTC-232	Numerical Techniques	1. A student should get a relational understanding of mathematical concepts and concerned structures, and should be able to follow the patterns involved, mathematical reasoning.
383	B.Sc(CS)	Semester –III	MTC-233	Mathematics Practical : Python Programming Language	1.A student should get adequate exposure to global and local concerns that explore them many aspects of Mathematical Sciences.
384	B.Sc(CS)	Semester –III	ELC-231	Micro Controller Architecture & Programming	student will be able  1. To write programs for 8051 microcontroller  2. To interface I/O peripherals to 8051 microcontroller  3. To design small microcontroller based projects
385	B.Sc(CS)	Semester –III	ELC-232	Digital Communication & Networking	student will be able  1. Define and explain terminologies of data communication  2. Understand the impact and limitations of various digital modulation techniques  3. To acknowledge the need of spread spectrum schemes.  4. Identify functions of data link layer and network layer while accessing communication link  5. To choose appropriate and advanced techniques to build the computer network

386	B.Sc(CS)	Semester –III	ELC-233	Electronics Lab Practical Course (ELC-233)	student will be able 1. To design and build his/her own microcontroller based projects. 2. To acquire skills of Embedded C programming 3. To know multiplexing and modulation techniques useful in developing wireless application 4. Do build and test own network and do settings. Guidelines for
387	B.Sc(CS)	Semester –III	AECC-I	Environment Awareness-I	1.Master core concepts and methods from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions.  2.Appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems.  3.Understand the transnational character of environmental problems and ways of addressing them, including interactions across local to global scales.  4.Apply systems concepts and methodologies to analyze and understand interactions between social and environmental processes.

388	B.Sc(CS)	Semester –III	AECC-II	Language Communication-I	1.Students will heighten their awareness of correct usage of English grammar in writing and speaking Students will improve their speaking ability in English both in terms of fluency and comprehensibility 2.Students will give oral presentations and receive feedback on their performance 3.Students will increase their reading speed and comprehension of academic articles
389	B.Sc(CS)	Semester –IV	CS-241	Data Structures & Algorithms I	Implementation of different data structures efficiently     Usage of well-organized data structures to handle large amount of data     Usage of appropriate data structures for problem solving
390	B.Sc(CS)	Semester –IV	CS-242	Computer Network-I	Have a good understanding of the OSI and TCP/IP Reference Models and in particular have a good knowledge of Layers.     Understand the working of various protocols.     Analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies
	B.Sc(CS)	Semester –IV	CS-243	Practical Course based on CS 241 and CS 242	1.Practical and Actual working of constructing data structure programs is done by students.     2.computer networking assignments

391	B.Sc(CS)	Semester –IV	ELC-241	Embedded System Design	On completion of the course, student will be able 1. To understand the difference between general computing and the Embedded systems. 2. To know the fundamentals of embedded systems. 3. Understand the use of Single board Computer (Such as Raspberry Pi) for an embedded system application. 4. Familiar with the programming environment to develop embedded systems and their interfaces with peripheral devices. 5. To develop familiarity with tools used to develop in an embedded environment.
392	B.Sc(CS)	Semester –IV	ELC-242	Wireless Comm. & Internet of Things	Students will be able to  1. Know working of wireless technologies such as Mobile communication, GSM, GPRS  2. Become familiar with 3G and 4G Cellular Network Technologies for Data Connections.  3. Understand working principles of short range communication application  4. Get introduce to upcoming technology of Internet of Things  5. Explore themselves and develop new IoT based applications
	B.Sc(CS)	Semester –IV	ELC-243	Practical Course based on and ELC-241 AND ELC-242	students will be able 1. To design and develop own smart applications using Rasberry-Pi 2. To write Python program for simple applications 3. To build own IoT based system

	B.Sc(CS)	Semester –IV	MTC-241	Computational Geometry	1.A student be able to apply their skills and knowledge, that is, translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.
393	B.Sc(CS)	Semester –IV	MTC-242	Operation Research	1.A student should be made aware of history of mathematics and hence of its past, present and future role as part of our culture.
394	B.Sc(CS)	Semester –IV	MTC-243	Practical Course based on MTC-241 and MTC-242	1.A student be able to apply their skills and knowledge, that is, translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.
395	B.Sc(CS)	Semester –IV	AECC-I	Environmental Awareness-II	1.Students develop critical-thinking skills, analyze real-world problems, and understand the power of narrative to create sustainable solutions for local and global communities.
396	B.Sc(CS)	Semester –IV	AECC-II	Language Communication –II	1.Students will improve their reading fluency skills through extensive reading 2.Students will enlarge their vocabulary by keeping a vocabulary journal 3.Students will strengthen their ability to write academic papers, essays and summaries using the process approach.

397	B.Sc(CS)	Semester –V	CS-351	Operating Systems – I	Processes and Thread Scheduling by operating system     Synchronization in process and threads by operating system     Memory management by operating system using with the help of various schemes
398	B.Sc(CS)	Semester –V	CS-352	Computer Networks – II	<ol> <li>Student will understand the different protocols of Application layer.</li> <li>Develop understanding of technical aspect of Multimedia Systems</li> <li>Develop various Multimedia Systems applicable in real time.</li> <li>Identify information security goals.</li> <li>Understand, compare and apply cryptographic techniques for data security.</li> </ol>
399	B.Sc(CS)	Semester –V	CS-357	Practical course based on CS 35	<ol> <li>To understand the concept of process scheduling with the help of simulation.</li> <li>To study the concept demand paging concepts in operating system.</li> <li>To understand the working of operating system shell.</li> </ol>
400	B.Sc(CS)	Semester –V	CS-353	Web Technologies – I	1.To Design dynamic and interactive Web pages. 2.To Learn Core-PHP, Server Side Scripting Language 3.To Learn PHP-Database handling

401	B.Sc(CS)	Semester –V	CS-354	Foundations of Data Science	<ol> <li>Perform Exploratory Data Analysis</li> <li>Obtain, clean/process, and transform data. 3. Detect and diagnose common data issues, such as missing values, special values, outliers, inconsistencies, and localization.</li> <li>Demonstrate proficiency with statistical analysis of data.</li> <li>Present results using data visualization techniques.</li> <li>Prepare data for use with a variety of statistical methods and models and recognize how the quality of the data and the means of data collection may affect conclusions.</li> </ol>
402	B.Sc(CS)	Semester –V	CS-358	Practical course based on CS 353 and CS 354	1.To Design dynamic and interactive Web pages. 2.To Learn Core-PHP, Server Side Scripting Language 3.To Learn PHP- Database handling 4.To apply statistical, data preprocessing and visualization techniques on data sets
403	B.Sc(CS)	Semester –V	(3-1)	Object Oriented Programming using Java-I	1.To learn Object Oriented Programming language 2. To study various java programming concept like Interface, File and Exception Handling etc. 3.To design User Interface using Swing and AWT
404	B.Sc(CS)	Semester –V	CS-356	Theoretical Computer Science	Understand the use of automata during language design.     Relate various automata and Languages.

405	B.Sc(CS)	Semester –V	CS-359	Practical Course based on CS 3	Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs.     Read and make elementary modifications to Java programs that solve real-world problems.     Validate input in a Java program.
406	B.Sc(CS)	Semester –V	CS-3510	Python Programming	To introduce programming concepts using python     Student should be able to develop Programming logic using python     To develop basic concepts and terminology of python programming     To test and execute python programs
407	B.Sc(CS)	Semester –V	CS-3511	Blockchain Technology	<ol> <li>Understand what and why of blockchain technology.</li> <li>Explore major components of blockchain.</li> <li>Learn about Bitcoin, Cryptocurrency and Ethereum.</li> <li>To learn blockchain programming using Python, Flask Web Framework, and HTTP client Postman.</li> </ol>
408	B.Sc(CS)	Semester –VI	CS-361	Operating Systems – II	<ol> <li>To understand the issue of Deadlocks in Process management.</li> <li>To understand the concept of File system management &amp; disk scheduling</li> <li>To study the concept of distributed and mobile operating systems</li> </ol>

409	B.Sc(CS)	Semester –VI	CS-362	Software Testing	<ol> <li>To understand various software testing methods and strategies.</li> <li>To understand a variety of software metrics, and identify defects and managing those defects for improvement in quality for given software.</li> <li>To design test cases and test plans, review reports of testing for qualitative software.</li> <li>To understand latest testing methods used in the software industries.</li> </ol>
410	B.Sc(CS)	Semester –VI	CS-367	Practical course based on CS 36	Management of deadlocks by operating system     File System management     Disk space management and scheduling for processes
411	B.Sc(CS)	Semester –VI	CS-363	Web Technologies – II	To Learn different technologies used at client Side Scripting Language     To Learn XML and XML parsers.     To One PHP framework for effective design of web application.     To Learn Java Script to program the behavior of web pages.     To Learn AJAX to make our application more dynamic.

412	B.Sc(CS)	Semester –VI	CS-364		Use appropriate models of analysis, assess the quality of input, and derive insight from results.      Analyze data, choose relevant models and algorithms for respective applications     Understand different data mining techniques like classification, prediction, clustering and association rule mining     Apply modeling and data analysis techniques to the solution of real world business problems
413	B.Sc(CS)	Semester –VI	CS-368	Practical course based on ( 🔪 36	<ol> <li>Build dynamic website.</li> <li>Using MVC based framework easy to design and handling the errors in dynamic website.</li> </ol>
414	B.Sc(CS)	Semester –VI	CS-365	Object Oriented Programming (	To learn database programming using Java     To study web development concept using Servlet and JSP     To develop a game application using multithreading     To learn socket programming concep
415	B.Sc(CS)	Semester –VI	CS-366	Compiler Construction	<ol> <li>Understand the process of scanning and parsing of source code.</li> <li>Learn the conversion code written in source language to machine language.</li> <li>Understand tools like LEX and YACC</li> </ol>

416	B.Sc(CS)	Semester –VI	CS-369	Practical Course based on CS	To Learn database Programming using Java     Understand and Create dynamic web pagesusing Servlets and JSP.     Work with basics of framework to develop secure web applications
417	B.Sc(CS)	Semester –VI	CS-3610	Software Testing Tools	1.To understand various software testing methods and strategies. 2.To understand a variety of software metrics and identify defects and managing those defects for improvement in quality for given software. 3.To design test cases and test plans, review reports of testing for qualitative software. 4. To understand latest testing tools used in the software industries.
418	B.Sc(CS)	Semester –VI	CS-3611	Project	1. The students work independently throughout the project work including: problem identification, information searching, literature study, design and analysis, implementation, testing, and the final reporting
419	B. Sc.		MB- 351	Medical Microbioloy- I	Students can learn about different bacterial pathogens, epidemiology, and diseases of human body systems.
420	B. Sc.		MB- 352	Immunology – I	1.Students learn all the basic concepts about immunity, blood cell formation, and different organs in immunity. They gain knowledge of 3 lines of body's defence. They thoroughly understand about Antigens and Antibodies; They gain knowledge about Cell Mediated Immune Response, Transplantation and Immunity.

421	B. Sc.	MB-353	Enzymology	Student are able to understand about enzymes, enzyme assays, they gain knowledge about methods of purification of enzymes, Students studies about enzyme kinetics and calculate Vmax,Km, Kcat values, They are able to tell different methods of enzyme immobilization.
422	B.SC	MB- 354	Genetics	Student acquires knowledge of Gene Linkage and crossing over, DNA Replication, Prokaryotic and Eukaryotic Transcription and Translation, Techniques used in recombinant DNA technology.
423	B.SC	MB- 355	Fermentation Technology – I	Students learn about objectives and applications of industrial fermentation process, They learn basic steps like Media optimization, Sterilization, Scale-up and Scale-down.  Students learn about economics of fermentation, test of QA and QC.
424	B.SC	MB-356	Agriculture Microbiology	Students learn about objectives and applications of Agriculture microbiology. They will learn about role of soil micro-organisms in agriculture. Students gain knowledge of Agriculture Technology
425	B.SC	MB- 3511	Dairy Microbiology	Students will learn about dairy developments in India.  Students will understand milk chemistry and microbiology, they will learn about spoilage of milk and milk preservation methods, milk born infections.  Student will come to know techniques of Pasteurization and milk analysis.
426	B.SC	MB-3510	Marine microbiology	Students will get awareness of unseen and unexplored niche of marine ecosystem of microbes. To acquire advances in the knowledge of marine microbes and marine ecology. To learn the field research on marine processes and laboratory research on microorganisms. To comprehend the role of marine microbes in bioremediation and bioprospecting. To avail career opportunities in marine education, industry and research.

		MB- 357	Practical course – I Based on	1. Students can able to isolate and identify pathogens from
427	DC C			clinicalsamples.
427	BS.C		MB-351	2. They can perform hematology and hemogram analysis.
			MB-352	3. They could able to perform epidemiological surveys.
		MB- 358	Practical course – II Based on	1. Students can learn clinical biochemistryexperiments.
			MB-353	2. They can analyseproteins and carbohydrates qualitatively
428	BS.C		MB-354	3. Student are able to make buffers, study enzyme kinetics and calculate Vmax, Km, Kcat values.
				4. They can make buffers, isolate genomic DNA, Plasmid DNA, could perform gelelectrophoresis.
		MB- 359	Practical course -III	1. Students are able to perform biochemical assays for vitamin andantibiotic,
			Based on	2. They can able to cultivate lactic acid bacteria, Bio- inoculants,
429	BS.C			Pesticide degrader. 3. Students can learn different milktest.
			MB-355	4. They can able to synthesize nanoparticles.
			MB-356	
430	B.SC	MB- 361	Medical Microbiology – II	Students can learn about chemotherapy, antibiotic resistance, and
430	D.3C			viral, fungal and protozoan pathogens.
		MB- 362	Immunology-II	Students can learn about Humoral immune response ,Cell
431	B.SC			mediated immune response ,Hypersensitivity ,Autoimmunity ,
		MB- 363	Metabolism	Autoimmune disease, Immunodeficiency Students learn about Membrane transport mechanisms,
		1115 303	1.10tabolishi	Bioenergetics and laws of thermodynamics. They understand
432	B.SC			Biosynthesis and Degradation of macromolecules.
				They could able to understand photosynthesis process in bacteria.

433	B.SC	MB- 364 MB- 365	Molecular Biology  Fermentation Technology - II	Student gain knowledge of methods of gene transfer by transformation, transduction and conjugation, They understand how to generate rDNA molecule, They can learn about important tools used in rDNA technology.  Here the students can learn about commercial scale productions of various products like: Primary Metabolites, Secondary
434	B.SC			metabolites, Enzymes, Biomass based products, Vaccines, Immune sera, Student can able to distinguish between Solid  State Fermentation and Submerged Fermentation.
435	B.SC	MB- 366	Food Microbiology	To describe food safety problems and solutions in India and global scale. Identify and classify types ofmicroorganisms in food processing and compare their Characteristics and behavior To learn food classification based on their perishability, intrinsic and extrinsic factors affecting the growth of microbes in foods, role of microorganisms in food fermentation.
436	B.SC	MB-3610	Waste management	Students will understand waste management and it practicable applicability.  To assess the magnitude and influence of hazardous content of waste, pollution of waters and waste water treatment technologies.  Students will learn the design and working of treatment plants and methods used for liquid and solid waste treatment.
437	B.SC	MB-3611	Nano-biotechnology	Students will understand design, development and application of Nanomaterials and their application in, nanodevices. To learn fundamentals of nanotechnology as to Synthesis and characterization techniques ofnanoparticles.   To acquire knowledge of applications of nano-materials in different disciplines of human life.   To compare the merits of using nanotechnology with existing technologies.

438	B.SC		MB-367	Practical course I Based on Diagnostic Microbiology and Immunology	Here students will study about microbial pathogens by using permanent slides. Isolation of yeast/Fungal pathogen. Antibiotic sensitivity testing of the bacterial pathogens: The qualitative diagnosis of Plasmodium spps., Demonstrations of: Serum protein separation by electrophoresis, ELISA (Antigen/Antibody detection) Egg inoculation technique
439	B.SC		MB 368	Practical Course – II  Based on  Metabolism and Molecular Biology	Students will obtain knowledge about clinical biochemistry experiments along with enzyme production, purification quantification, immobilization Bacteriophage.
440	B.SC		MB 369	Practical Course-III Based on Fermentation Technology- II and Food Microbiology	Here students will get to know about fermentation at laboratory level.  Solid state fermentation, Probiotic micro flora,  Aflatoxin, TDP and TDT value, Determination of TDR and D value  HACCP guidelines for food industry
441	M.Sc	Semester –I	MB 501	Microbial systematics	1. This course gives idea about microbial classification.
442	M.Sc	Semester –I	Mb 502	Quantitative biology	2.Students get knowledge about quantitative analysis of the survey. report and the data collected, comparative account of the data.
443	M.Sc	Semester –I	MB 503	Biochemistry and Metabolisr	3.Metabolism of proteins, lipids and carbohydrates. Catabolism and anabolism of all the three biomolecules
444	M.Sc	Semester –I	MBTE 11	Fungal systematics and Extr	Knowledge about fungal classification. As well as idea about the extreme conditions like temp, pH, moisture where the microorganisms can grow.

			MBPE11	Practical based on Fungal s	Specific media for the growth of Fungi, and
445	M.Sc	Semester –I		<b>3</b>	extremophiles. Focussing the keys of the isolation and identification of fungi and extremophiles
446	M.Sc	Semester –l	MBCP 1	Biochemical techniques ( Practical based on Complusory theory credits)	Practicals based on Buffer preparation, Role of buffer in media preparation, Different techniques like U.V. Spectrophotometry, electrophoresis, chromatography etc.
447	M.Sc	Semester –II	MB 601	Instrumentation and biophys	Principle and techniques like different types of chromatography, Electrophoresis,HPLC,Colorimetry, U. V. Spectrometry etc.
448	M.Sc	Semester –II	Mb 602	Molecular Biology	Methods of transcription and translations in prokaryotes and eukaryotes etc. Cell division and cell cycle control by CDK Cyclins etc'
449	M.Sc	Semester –II	MB 603	Enzymology ,Bioenergetics and Metabolism	Thermodynamics, Enzymes classification, Isolation and purification methods along with that specific activity, enzyme activity calculations. Study of intermittent metabolic products produced during metabolism
450	M.Sc	Semester –II	MBTE 23	Nitrogen metabolism , respiration and photosynthesis	Study in detail about Nitrogen cycle, isolation and identification of Nitrogen fixing and nitrogen nonfixing bacteria. Along with that photosynthesis mechanism in different types of plants, C3 and C4 pathways, CAM pathways etc
451	M.Sc	Semester –II	MBPE23	Practical based on Nitrogen metabolism , respiration and photosynthesis	Preparation of selective media for the isolation and identification of symbiotic and nonsymbotic bacteria, their confirmation, cell division steps etc.

452	M.Sc	Semester –II	MBCP 2	Molecular biology, Enzymology and instrumentation techniques ( Practical based on Complusory theory credits)	Practicals related to plasmid DNA extraction, Genomic DNA extraction, Transformation, Plasmid curing, Restriction endonuclease. To calculate enzyme activity, and specific activity of an enzyme, their purification methods.
453	M.Sc	Semester –III	MB 701	Immunology	Students get knowledge about Immune system mechanism, how the immune system acts against tumor and cancer cell. What are biological response modifiers.etc
454	M.Sc	Semester –III	Mb 702	Molecular Biology	Genetics behind cancer and Tumours . Various test to check the gene sequences, hereditary transferring diseases etc. , Chromosomal aberrations.
455	M.Sc	Semester –III	MB 703	Clinical Microbiology	Different types of diseases caused by bacteria, fungi, viruses, their habitat, multiplication rate, symptoms, Laboratory diagnosis, antibiotic sensitivity testing and prophylaxis etc.
456	M.Sc	Semester –III	MBTE 31	Cell culture techniques	What are cell line, continues cell lines. Cell cultures specificities of different cell lines. Meaning of Established cell line, suspension culture.and their use for identification of specific cancer.
457	M.Sc	Semester –III	MBPE 31	Practical based on cell culture technique	Specific media for the preparation cell line and cell cultre, role of each and every content in the medium
458	M.Sc	Semester –III	MBCP 3	( Practical based on Complusory theory credits)	Identification and Isolation of various pathogenic organism. Precipitation and agglutination. Qualitative and quatitative analysis of Antigen and Antibody etc.

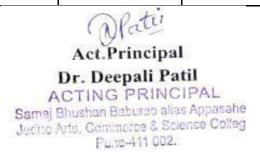
			MB 801	Pharmaceutical Microbiology	What are anti-infective their mode of action, method to
459	M.Sc	Semester –IV			check susceptibility and resistance. Meaning of MIC , MBC . NCCS Norms in pharmacy, CLSI guidelines
			Mb 802	Microbiology technology	etc Different method used in fermentation industry. Batch
460	M.Sc	Semester –IV	IVID OOZ	INICIODIOIOGY technology	fermentation , Continuous fermentation. Fed batch fermentation. Importatnt parts used in fermenter.
			MBTE 41	Quality assurance and	Role of quality department in pharmaceutical industry,
				validation in	Meaning of calibration and Validation of specific
461	M.Sc	Semester –IV		1.	instrument. What is Standard Operating System
				and Development of Anti- infectives.	
			MBPE41	Practical based on Quality	
				assurance and validation in	
462	M.Sc	Semester –IV			S.O.P. methods of various instruments like incubator ,
					Hot air oven ,Auto clave. Calculate MIC and MBC value of specific anti-infective. Antibiotic susceptibility
				infectives.	testing. Reasons For antibiotic resist stance.
			MBTE 42	Advances in Microbial techno	Testing of MIC and MBC , different methods to check
463	M.Sc	Semester –IV			antibiotic resistance, Buffer preparation, Media
					preparation, preparation of dilution scheme according
			MBCP 4	Dissertation	to CLSI guidelines etc.  Research project should be completed by a
					postgraduate student. They get the knowledge about
464	M.Sc	Compostor IV			to check proper research paper related to our topic.
404	IVI.SC	Semester –IV			How to apply statistical analysis by ANNOVA or T
					test. How to prepare final thesis etc.

## 2.6.1 :- All Program outcomes(PO)

Program Program No.		Program outcomes	Subjects	Year	
1	B.A.	1: Understand economics concepts and problems of economics, demand and supply law its variations.	B.A - Economics	2021-22	
		2 Knowledge of population demographic theory, poverty and unemployment and its measures of eradications.	B.A - Economics	2021-22	
		3 understanding price determinations under various market structures.	B.A - Economics	2021-22	
		4: Understand factors of production determinants.	B.A - Economics	2021-22	
		5 knowledge of national income accounting, inflation measures.	B.A - Economics	2021-22	
		6 Understand present economic profile as an emerging economy.	B.A - Economics	2021-22	
		7 knowledge of international financial intuitions functioning, its achievement and current status.	B.A - Economics	2021-22	
		8 Knowledge of theories of development and growth, macro economics policy its implantations.	B.A - Economics	2021-22	
		1. Develop linguistic competence,	B.A.(English)	2021-22	
		2 Knowledge of Various Genres of Literature	B.A.(English)	2021-22	
		3. knowledge of Linguistics and Phonetics to enhance Communication Skills	B.A.(English)	2021-22	
		4 Critical Analysis of literary Works	B.A.(English)	2021-22	
		5.Develop writing skills in English	B.A.(English)	2021-22	



<ol> <li>Enable students to gain knowledge for Courses of Travel and Tourism, Surveyor, Geo-informatics, MSW., GPS,GIS &amp; RS etc.</li> </ol>	B.A.(Geography)	2021-22
2. Students can gain knowledge and get success in UPSC and MPSC competitive exams.	B.A.(Geography)	2021-22
3.Students are enabled to conduct socio-economic Survey with appropriate Methods and explain it with GIS & RS.	B.A.(Geography)	2021-22
4. Students are able to read & explain Toposheets & IMD Weather Map.	B.A.(Geography)	2021-22
5. Develop competence to find causes, study the consequences and giving suggestions for Disaster Management and can actively participate where ever applicable.	B.A.(Geography)	2021-22
6. Gain knowledge and guide about different tourist places with geographical, Historical, Spiritual as well as aesthetic angle. tourist places.	B.A.(Geography)	2021-22
8. Students can understand & explain the situation of Physio- Socio-Economic aspects of India.	B.A.(Geography)	2021-22
9. Student can understand the Natural & Manmade Resources and its importance for life.	B.A.(Geography)	2021-22
10. Students can aware and Practice advanced and scientific agricultural methods in their Personal perspective.	B.A.(Geography)	2021-22
11. Understand the concept of trade, environment ,argiculture,population	B.A.(Geography)	2021-22
12. Students can Understand and explain about the Origin and landforms on the earth.	B.A.(Geography)	2021-22
1 Development of citizenship	B.A. (politics)	2021-22
2.Constitutional awareness	B.A. (politics)	2021-22



		3. Develop ideological base	B.A. (politics)	2021-22
		4.Develop International perspective	B.A. (politics)	2021-22
		1 Awareness of linguistic skills	B.A (Marathi)	2021-22
		2. Develop Literary Skills	B.A (Marathi)	2021-22
		3. Use of Marathi in Practical life as a language of communication	B.A (Marathi)	2021-22
		4. Exposure to different genres of Marathi Literature	B.A (Marathi)	2021-22
		5. Develop Critical abilities to understand the subItleties of language	B.A (Marathi)	2021-22
		6. Understand the scope and use of Marathi in Media, Newspapers and other Arts	B.A (Marathi)	2021-22
2	B.Com	1:Understand banks and its fuctions.	B. Com. (Banking & Economics)	2021-22
		2: Awareness about new technology implementation in banking sector.	B. Com. (Banking & Economics)	2021-22
		3: Gain knowledge about financial markets its fuctions, SBI role and controls.	B. Com. (Banking & Economics)	2021-22
		4: students understand money and capital market, foreign exchange markets its workings.	B. Com. (Banking & Economics)	2021-22
		5: Students get knowledge about financial investment intuition especially in India.	B. Com. (Banking & Economics)	2021-22

6: Understand banking regulation Act provisions and new	B. Com. (Banking	2021-22
amendments.	& Economics)	
7: Students learn loan recovery methods of loan by bank.	B. Com. (Banking & Economics)	2021-22
8: Student get an idea about current scenario of Indian banking system.	B. Com. (Banking & Economics)	2021-22
9 : Student know the economic concepts, demand and supply variations, objectives of firms, demand forecasting, etc.	B. Com. (Banking & Economics)	2021-22
10: knowledge about cost and its effects on any firm, industry and trade.	B. Com. (Banking & Economics)	2021-22
11: Student learn price determinations under various market structures.	B. Com. (Banking & Economics)	2021-22
12: information on how factor of production determines	B. Com. (Banking & Economics)	2021-22
13: Student understand national income accounting, inflation measures.	B. Com. (Banking & Economics)	2021-22
14: Student get knowledge on today's profile as an emerging economy.	B. Com. (Banking & Economics)	2021-22
15: Student understand today's foreign trade and balance payment scenario.	B. Com. (Banking & Economics)	2021-22
16: Student understand international financial intuitions functioning, its achievement and current status.	B. Com. (Banking & Economics)	2021-22
1: The Students are equipped with the knowledge of accountancy after completing their graduation.	B.COM (commerce)	2021-22
2:Competence of the knowledge of income tax and other such lawas related to business trade and	B.COM (commerce)	2021-22



	3: Knowledge of the market position and modern communciation skills for success in the business.	B.COM (commerce)	2021-22
	4: Anaysis by using mathematical and stastical tools, to undertake research in trade and commerce.	B.COM (commerce)	2021-22
	5: Knowledge of various manageral aspects.	B.COM (commerce)	2021-22
	6: To enhance communicative skills	B.COM (commerce)	2021-22
	7: Development of business skills and entrepreneurship	B.COM (commerce)	2021-22
	8:Knowledge of banking rules regulation laws and practices.	B.COM (commerce)	2021-22
	9: Understanding of the Theory and Practice of Economics and knowledge of the consequences of Economical changes.	B.COM (commerce)	2021-22
	10- Achieve professional success thruogh communication skills	B.COM (commerce)	2021-22
3 <b>B.Sc.</b> (Comp.)	1.Theoretical and Practical skills of Computer Science	B.C.S.	2021-22
(66	Ability to apply knowledge of computing and mathematics appropriately	B.C.S.	2021-22
	3. Competence to identify formulate and develop solutions to computational challenges.	B.C.S.	2021-22
	4. Ability to design implement and evaluate computational system to meet desired results	B.C.S.	2021-22
	5. Abillity to use appropriate technology skills and tools necessary for computing practice	B.C.S.	2021-22
	6.Application of knowledge of computing and statistics appropriately	B.C.S.	2021-22
4 <b>B.C.A.</b>	1.Impart knowledge required for planning, designing and	B.C.A.	2021-22



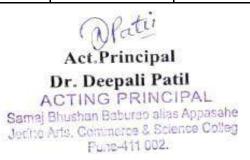
		2.Provide sound academic base from which an advanced career in Computer Applications can be developed.	B.C.A.	2021-22
		3.Develop practical skills to address problems in computer systems and applications.	B.C.A.	2021-22
		4.Produce knowledgeable and skilled human resources which is employable in IT	B.C.A.	2021-22
		5.Develop practical skills to address problems in computer systems and applications.	B.C.A.	2021-22
		6.Teaches professional competence in developing software and in its design and implementation.	B.C.A.	2021-22
		7.Provide basic statistical knowledge required for computer applications	B.C.A.	2021-22
		8.Provide sound academic base from which an advanced career in Computer Applications can be developed.	BBA[CA]	2021-22
		9.Conceptual grounding in computer usage as well as its practical business application will be provided making	BBA[CA]	2021-22
		10.Develop students to become globally competent.	BBA[CA]	2021-22
		11.Provides practical skills to address problems in computer systems and applications.	BBA[CA]	2021-22
		12.Provide basic statistical knowledge required for computer applications	BBA[CA]	2021-22
5	B.Sc. (Micro)	1. The aim is to provide students with a solid foundation in the physiology, genetics, biochemistry, medical microbiology and agricultural microbiology of bacteria and viruses and an	B.Sc.(Microbiolog y)	2021-22
		2. The programme has a strong practical emphasis, providing students with the basic laboratory skills required for a career in either applied or research microbiology	B.Sc.(Microbiolog y)	2021-22
		3. Deepens the student's understanding of how viruses and bacteria survive, multiply, interact with their environment and cause disease through core studies on their structure,	B.Sc.(Microbiolog y)	2021-22
				-



		4.To provide the appropriate environment to encourage the development of the students interest in general microbiology and to help them acquire appropriate intellectual, scientific,	B.Sc.(Microbiolog y)	2021-22
		Develop advanced practical skills relevant to microbiology	B.Sc.(Microbiolog y)	2021-22
		6. An understanding of laboratory based investigations in microbiology applicable to studying microbial involvement in health, and disease	B.Sc.(Microbiolog y)	2021-22
		7. To increase the employability of students in various industries like food industry, pharmaceutical and agriculture based industry.	B.Sc.(Microbiolog y)	2021-22
		8. To increase the knowledge reagarding morphological & anatomical structure of plants	B.Sc.(Microbiolog y)	2021-22
		9.To increase the knowledge of classification system of plants according to various scientists	B.Sc.(Microbiolog y)	2021-22
		develop the practical skills relevant to botany	B.Sc.(Microbiolog y)	2021-22
6	M.Com.	1: Knowledge of the advances in accountancy especially in the area of corporate and service sector.	M.COM(commerc e)	2021-22
		2: To make the students acquiented with the various managerail concepts including strategic management useful for success in business.	M.COM(commerc e)	2021-22
		3. Knowledge of the research methology in order to conduct in depth study of the subjects related to trade, commerce and Industry.	M.COM(commerc e)	2021-22
		4.Exposure to current problems in busienss enviornment.So cyber law study and human rights are included as part of curriulum.	M.COM(commerc e)	2021-22
		5. application of the current knowledge related to income tax including excie duty, service tax, GST and vat	M.COM(commerc e)	2021-22



		6. Knowledge of the capital market	M.COM(commerc e)	2021-22
		7. Ability to verify the methods of raising the finance its adverse and favourable effects.	M.COM(commerc e)	2021-22
7	M.Sc. (Micro)	Provide students with sufficiently detailed information about the modern technologies used in diagnostics and research to enable them to apply these to complex problem solving in the investigation of disease	M.Sc.(Microbiolog y)	2021-22
		2. Develop advanced practical skills relevant to microbiology, Interpret quantitative and qualitative data. Learn independently take responsibility for planning and organization of work both their own and in a team	M.Sc.(Microbiolog y)	2021-22
		3. To communicate ideas, principles and theories effectively by oral, written and visual means	M.Sc.(Microbiolog y)	2021-22
		4. Apply basic statistical and numerical skills to microbiological data. Use Information Technology e.g. Internet, Virtual Learning Resources, word processors and	M.Sc.(Microbiolog y)	2021-22
		5. Work effectively and independently on a given project or task. Work effectively in small groups and teams towards a common Goal/outcome	M.Sc.(Microbiolog y)	2021-22
		6. Students will acquire a number of transferable skills, including: design and execution of experiments (including working in a team); accessing information; interpretation of	M.Sc.(Microbiolog y)	2021-22
		7. The final year aims to bring the student's understanding to the forefront of selected areas of microbial research, through lectures, directed studies and presentations as well as a lab-	M.Sc.(Microbiolog y)	2021-22
		8. Increase the confidence level of students and make them a socially responsible person	M.Sc.(Microbiolog y)	2021-22
		9.Get knowledge of fermentation process, design of bioreactor & its working	M.Sc.(Microbiolog y)	2021-22



10. Get knowlege of species & species evolution	M.Sc.(Microbiolog 2021-22 y)
11.Study how to cultivate unculturable using various molecular methods & bioinformatics	M.Sc.(Microbiolog 2021-22 y)
12. Get knowlege of gene sequencing	M.Sc.(Microbiolog 2021-22 y)
13. Study various statistical methods under quantitative biology	M.Sc.(Microbiolog 2021-22 y)
14. Study cell organization & biochemistry	M.Sc.(Microbiolog 2021-22 y)
15. Get knowledge of instumentation & molecular physics	M.Sc.(Microbiolog 2021-22 y)
16.Study microbial metabolism & bioenergetics	M.Sc.(Microbiolog 2021-22 y)
17. Get practical knowledge of enzymology & microbial metabolism	M.Sc.(Microbiolog 2021-22 y)
18. Get knowledge of pharmaceutical & medical microbiology	M.Sc.(Microbiolog 2021-22 y)
19. Get knowlege of molecular biology	M.Sc.(Microbiolog 2021-22 y)
20. Get knowlege of microbial technology	M.Sc.(Microbiolog 2021-22 y)



## 2.6.1 :- Courses outcomes for All Courses

Id	Program	Sem	CourseCode	CourseName	Courses outcomes
1	B.Com	Semester –l	111	Compulsary English-I	Students got good pieces of prose and poetry so that they realize the beauty and communicative power of English.
2	B.Com	Semester –I	111	Compulsary English-I	2.Students got an exposure to native, cultural experiences and situations so that they Understood the importance and utility of English language.
3	B.Com	Semester –I	112	Financial Accounting- I	To impart knowledge of basic accounting concepts
4	B.Com	Semester –I	112	Financial Accounting- I	To create awareness about application of these concepts in business world
5	B.Com	Semester –I	113	Business Economics (Micro) - I	To impart knowledge of business economics
6	B.Com	Semester –I	113	Business Economics (Micro) - I	2. To understand basic theories, concepts of micro economics and their application
7	B.Com	Semester –I	114 (A)	Business Mathematics & Statistics- I	To familiar the students with applications of Statistics and Mathematics in Business



8	B.Com	Semester –I	114 (A)	Business Mathematics & Statistics- I	2. The main outcome of this course is that the students are able to analyze the data by using some elementary statistical methods
9	B.Com	Semester –I	115 - B	BANKING & FINANCE- I	To provide knowledge of fundamentals of Banking
10	B.Com	Semester –I	115 - B	BANKING & FINANCE- I	2. To create awareness about various banking concepts
11	B.Com	Semester –I	116 - B	Insurance and Transport- I	To acquaint students with the concepts of Insurance
12	B.Com	Semester –I	116 - B	Insurance and Transport- I	To create awareness regarding basic knowledge about Life     Insurance, Fire Insurance and Marine Insurance.
13	B.Com	Semester –I	116 - E	Business Environment & Entrepreneurship - I	To understand the concept of Business Environment and its aspects
14	B.Com	Semester –I	116 - E	Business Environment & Entrepreneurship - I	To examine personality competencies most common to majority of successful entrepreneurs and to show how these competencies can be developed or acquired
15	B.Com	Semester –I	116 - E	Business Environment & Entrepreneurship - I	3. To generate entrepreneurial inspiration through the study of successful Entrepreneurs
16	B.Com	Semester –I	115-C	Commercial Geography	1.Students Understood the scope and content of commercial g eography in relation to spatial distribution of agr iculture, forest resources and industrial production



17	B.Com	Semester –I	115-C	Commercial Geography	2. Acquainted the students about dynamic aspects of commercial geography.
18	B.Com	Semester –I	117-A	Additional English	Developed confidence to speak fluent English.
19	B.Com	Semester –I	117-A	Additional English	2.Developed the ability among students to use English language.
20	B.Com	Semester –II	121	Compulsary English-II	3.Students got an overall linguistic competence and communicative skills.
21	B.Com	Semester –II	121	Compulsary English-II	4.Students are developed in oral and written communicative skills, so that their employability enhances and English becomes the medium of their livelihood and personality.
22	B.Com	Semester –II	122	Financial Accounting- II	To impart knowledge of various software used in accounting
23	B.Com	Semester –II	122	Financial Accounting- II	2. To impart knowledge about final accounts of charitable trusts
24	B.Com	Semester –II	123	Business Economics (Micro) - II	To understand the basic concepts of micro economics.
25	B.Com	Semester –II	123	Business Economics (Micro) - II	2. To understand the tools and theories of economics for solving the problem of decision making by consumers and producers.
26	B.Com	Semester –II	124 (A)	Business Mathematics & Statistics- II	To introduce the basic concepts in Finance and Business     Mathematics and Statistics
27	B.Com	Semester –II	124 (A)	Business Mathematics & Statistics- II	To learn some elementary statistical methods for analysis of data
28	B.Com	Semester –II	125(B)	BANKING & FINANCE- II	1. To develop the working capability of students in banking sector
29	B.Com	Semester –II	125(B)	BANKING & FINANCE- II	2. To Make the Students aware of Banking Business and practices
30	B.Com	Semester –II	126 (B)	Insurance and Transport- II	To acquaint students with the concepts of transport.



		T	T	T	T 1
31	B.Com	Semester –II	126 (B)	Insurance and Transport- II	2. To create awareness regarding basic knowledge about
			(-)	·	transportation system in India.
32	B.Com	Semester –II	126 (E)	Business Environment &	1. To understand Nature - Comparison between entrepreneurial
32	D.COM	Semester ii	120 (2)	Entrepreneurship - II	and non-entrepreneurial,
33	B.Com	Semester –II	126 (E)	Business Environment &	2. To understand Role of Entrepreneurship in economy
33	b.com	Semester -II	120 (L)	Entrepreneurship - II	2. To understand Role of Entrepreneurship in economy
34	B.Com	Semester –II	126 (E)	Business Environment &	3. Students are motivated to prepare their mind set for taking up
54	B.COIII	Semester -II	120 (E)	Entrepreneurship - II	entrepreneurship as career.
35	B.Com	Semester –II	125-C	Commercial Geography-II	3.Knowledge about dynamic nature and industrial field
36	B.Com	Compostor II	125-C	Commercial Coography II	4. Awareness about the relationship between the geographical
30	B.COIII	Semester –II	125-C	Commercial Geography-II	factors and economic activities
37	B.Com	Compostor II	127-A	Additional English-II	1 Developed the ability among students to use English language
57	B.COIII	Semester –II	127-A	Additional English-II	1.Developed the ability among students to use English language.
38	B.Com	Semester –II	127-A	Additional English-II	2.Initiated students into the Joy of Reading literary texts.
39	B.Com	Semester –III	231	Business Communication-I	1. To understand the concept, process and importance of
39	B.COIII	Semester -m	251	Busilless Collinium Cation-i	communication.
40	B.Com	Semester –III	231	Business Communication-I	2. To develop business communication skills through the
40	B.COIII	Semester -m	251	Busiliess Collinium Cation-i	application and exercises.
41	D. Carra	Compostor III	222	CORRODATE ACCOUNTING I	1.Awareness about the conceptual aspect of corporate
41	B.Com	Semester –III	232	CORPORATE ACCOUNTING -I	accounting.
					2. To update the students with knowledge for preparation of final
42	B.Com	Semester –III	232	CORPORATE ACCOUNTING -I	accounts of a company as per Schedule III of the Companies Act
					2013
42	D. C	Carrage and III	222	DUCINESS ECONOMICS (MACRO)	Exposure to basic Micro Economic concepts and inculcate an
43	B.Com	Semester –III	233	BUSINESS ECONOMICS (MACRO)	analytical approach to the subject matter.
4.4	D. C	Carra a starr 111	222	DUCINESS ECONOMICS (NAACOO)	2. Stimulated the students interest by showing the relevance and
44	B.Com	Semester –III	233	BUSINESS ECONOMICS (MACRO)	use of various economic theories.
45	D. Cour	Compostor	224	DUCINESS NAANIA SENAENT I	1. To provide basic knowledge and understanding about various
45	B.Com	Semester –III	234	BUSINESS MANAGEMENT -I	concepts of Business Management.
46	B.Com	Semester –III	234	BUSINESS MANAGEMENT -I	2.Understood the various functions of management
47	B.Com	Semester –III	235	ELEMENTS OF COMPANY LAW	1.Imparted with the knowledge of fundamentals of Company Law.
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48	B.Com	Semester –III	235	ELEMENTS OF COMPANY LAW	2. Updated the knowledge of provisions of the Compan ies Act of
46	B.Com	Semester -m	233	ELLIVILIVIS OF COMPANY LAW	2013.
49	B.Com	Semester –III	236(B)	Banking and Finance-I	1.To provide the knowledge about Indian Banking System.
50	B.Com	Semester –III	236(B)	Banking and Finance-I	2.To create the awareness about the role of banking in economic development.
51	B.Com	Semester –III	236(E)	Cost and Works Accounting -I	To prepare learners to know and understand the basic concepts of cost.
52	B.Com	Semester –III	236(E)	Cost and Works Accounting -I	3. To enable students to prepare a cost sheet.
53	B.Com	Semester –IV	241	Business Communication-II	1.To acquire and develop good communication skills requisite for business correspondence.
54	B.Com	Semester –IV	241	Business Communication-II	To develop business communication skills through the application and exercises
55	B.Com	Semester –IV	242	CORPORATE ACCOUNTING -II	1. To acquaint the student with knowledge of corporate policies of investment for expansion and growth through purchase of stake in or absorption of smaller units.
56	B.Com	Semester –IV	242	CORPORATE ACCOUNTING -II	2. To introduce the students with the recent trends in the field of accountancy
57	B.Com	Semester –IV	243	BUSINESS ECONOMICS (MACRO)	1. Exposure to basic Micro Economic concepts and inculcate an analytical approach to the subject matter.
58	B.Com	Semester –IV	243	BUSINESS ECONOMICS (MACRO)	2. Stimulated the students interest by showing the relevance and use of various economic theories.
59	B.Com	Semester –IV	244	BUSINESS MANAGEMENT -II	1To provide the knowledge about Motivating the staff
60	B.Com	Semester –IV	244	BUSINESS MANAGEMENT -II	2. To provide the knowledge about Emerging trends in Business management
61	B.Com	Semester –IV	245	ELEMENTS OF COMPANY LAW-II	To develop general awareness among the students about management of company
62	B.Com	Semester –IV	245	ELEMENTS OF COMPANY LAW-II	2. To have a comprehensive understanding about Key managerial Personnel of company and their role in Company administration.
63	B.Com	Semester –IV	246(B)	Banking and Finance-II	1.To provide the knowledge of Cooperative Banking in India
64	B.Com	Semester –IV	246(B)	Banking and Finance-II	2.To analyze the functioning of Development Banking
65	B.Com	Semester –IV	246(E)	Cost and Works Accounting -II	To know the documents that are used in stores and how to calculate the issuing price of material.



66	B.Com	Semester –IV	246(E)	Cost and Works Accounting -II	To understand recent trends in cost accounting.			
67	D. C	Compostor V	254	Dusings Degulatery Frances	1. To provide conceptual knowledge about the framework			
67	B.Com	Semester –V	351		of business Law in India.			
					2. To create awareness among the students about legal			
68	B.Com	Semester –V	351	Business Regulatory Framewor	environment relating to the Contract Law, Partnership Act, Sale of			
					Goods Act in India.			
		_	( - )		1. To acquaint the student with knowledge about various			
69	B.Com	Semester –V	246(E)	ADVANCED ACCOUNTING – I	concepts, objectives, and applicability of some important			
					accounting standards.			
					2. To update the students with knowledge for preparation			
70	B.Com	Semester –V	246(E)	ADVANCED ACCOUNTING – I	of final accounts of a Banking Companies with the			
					provisions of Banking Regulation Act 1949.			
71	B.Com	Semester –V	353	Indian & Global Economic	1.To develop ability to analyze economic development			
71	D.COIII	Semester –v	333	Development	process of India.			
72	B.Com	om Semester –V	Somostor V	Samastar —\/	Somostor V	353	Indian & Global Economic	2. To impart knowledge about the relevance of economic
72	B.COIII	Semester –v	333	Development	practices in modern competitive world.			
					1. To acquaint themselves about the Definition,			
73	B.Com	n Semester –V	354	Auditing	Nature,Objectives and Advantages of Auditing, Types of			
/3	b.Com		334		Audit, Errors and Fraud, Audit Program, Notebook, Working			
					Paper, Internal Control, Check.			
					2. To get knowledge about concept of Checking, Vouching,			
74	B.Com	Semester –V	354	Auditing	Verification and Valuation, Types of Audit Report and			
					Auditing Assurance Standard.			
			255.0	Banking and Finance-Special	To acquaint the students with Indian Financial System			
75	B.Com	Semester –V	355-B	Paper II	and its various segments.			
7.0	D. C	Carranton V	255 D					
76	B.Com	Semester –V	355-B	Banking and Finance-Special Pa	2. To make the students aware about Indian Money Market.			
77	D. Com	Somoster V	255 0	Cost and Works Accounting.	2. To Introduce the cost accounting standards and the cost			
//	B.COIII	B.Com Semester –V 355 – e	355 – e	Special Paper II	accounting standard board.			



78	B.Com	Semester –V	356-B	Banking and Finance-Special Pa	To familiarize the Banking Laws and Practice in correlation to the Banking System in India.
79	B.Com	Semester –V	356-B	Banking and Finance-Special Pa	2. To understand the legal aspects of Banking transactions and its implication as a Banker and as a customer.
80	B.Com	Semester –V	356 –E	Cost and Works Accounting Special Paper III	1. To prepare learners to understand the basic techniques in Cost Accounting
81	B.Com	Semester –V	356 –E	Cost and Works Accounting Special Paper III	2. To understand the learner, application of Cost Accounting techniques in cost control and decision making.
82	B.Com	Semester –VI	361	Business Regulatory Framewor	1. To develop general awareness of Business Law among the students.
83	B.Com	Semester –VI	361	Business Regulatory Framewor	2. To understand the various statutes containing regulatory mechanism of business and its relevant provisions including different types of partnerships
84	B.Com	Semester –VI	362	ADVANCED ACCOUNTING – II	1. To acquaint the student with knowledge about the legal provisions regarding preparation and presentation of final accounts of Co-operative Societies.
85	B.Com	Semester –VI	362	ADVANCED ACCOUNTING – II	2. To understand the procedure and methods of analysis of financial statements.
86	B.Com	Semester –VI	363	Indian & Global Economic Deve	To develop ability of students to analyze economic development process of India.
87	B.Com	Semester –VI	363	Indian & Global Economic Deve	2. To acquaint the students with the knowledge of recent trends in Human Development Index.
88	B.Com	Semester –VI	364	Auditing & Taxation - II	To understand the basic concepts of Income Tax Act,     1961 and create awareness of direct taxation among the students.



89	B.Com	Semester –VI	364	Auditing & Taxation - II	2. To understand the income tax rules and regulations and its provisions.
90	B.Com	Semester –VI	365-B	Banking & Finance-Special Pape	To familiarize students about various basic concepts of stock market.
91	B.Com	Semester –VI	365-B	Banking & Finance-Special Pape	2 .To analyse the types and process of stock trading.
92	B.Com	Semester –VI	365 – E	Cost and Works Accounting. Special Paper II	1. To provide knowledge about the various methods of costing.
93	B.Com	Semester –VI	365 – E	Cost and Works Accounting. Special Paper II	2. To understand the applications of different methods of costing in manufacturing and service industries.
94	B.Com	Semester –VI	366-B	Banking & Finance-Special Paper III	To familiarize students about concept and types cybercrimes in banking
95	B.Com	Semester –VI	366-B	Banking & Finance-Special Paper III	2. To understand the aspects of paying and collecting banker.
96	B.Com	Semester –VI	366 – E	Cost and Works Accounting Special Paper III	To impart knowledge about Standard Costing and Variance Analysis
97		Semester –VI	366 – E	Cost and Works Accounting Special Paper III	2. To learn about pricing policy and its implementation.
98		Semester –I	11201	Physical Geography	1. To introduced the concept of physical geography
99	B.A.(Geogra phy)	Semester –I	11201	Physical Geography	2. To understand basic concept of physical geography
100	B.A. Politics	Semester –I	11161	Politics G1	1.Study in detail the political structure both Constitutional and Administrative.
101	B.A Economics	Semester –I	11151	G-1 Indian Economic Environme	1.To provide the students with the background of the Indian Economy with focus on contemporary issues like economic environment.
102		Semester –I	11151	G-1 Indian Economic Environme	2. Ability to develop an understanding of the economic



103	B.A. Marathi	Semester –I	11021	F.Y.B.A Marathi G1	1. Create, interest, about Literature.
104	B.A. Marathi	Semester –I	11021	F.Y.B.A Marathi G1	2. Aware the students about Marathi Literature, Marathi Language and Marathi Culture.
105	B.A. Marathi	Semester –I	11021	F.Y.B.A Marathi G1	3.Developed the sense of awareness about literature amongst student
106	B.A. ENGLISH	Semester –I	11001	Compulsory English F.Y.	Developed grammatical skills and accuracy
107	B.A. ENGLISH	Semester –I	11001	Compulsory English F.Y.	2. Developed writing skills and comprehension of literature
108	B.A. ENGLISH	Semester –I	11331	Optional English G1	1. Students are exposed to the basics of literature and language
109	ENGLISH	Semester –I	11331	Optional English G1	2. Students are familiarized with different types of literature in English, the literary devices and terms so that they Understood the literary merit, beauty and creative use of language
110		Semester –II	12201	Human Geography	1. To introduced the concept of Human geography
111	B.A.(Geogra phy)	Semester –II	12201	Human Geography	2. To understand basic concept of Human geography
112	B.A. Politics	Semester –II	12161	Politics G1	1. To familiarize students with the working of the Constitution of India. Study the political processes and the actual functioning of the political system.
113	Marathi	Semester –II		Modern Indian language Marathi	1-प्रगत भाषिक कौशल्य यांची क्षमता विकसित करणे
114	B.A Economics	Semester –II	11152	G-1 Indian Economic Environm	1.To familiarize the students with the recent developments in the Indian Economy
115	B.A Economics	Semester –II	11152	G-1 Indian Economic Environm	2.Ability to compare and contrast Indian Economy with other world economies.
116	B.A. Marathi	Semester –II	11022	F.Y.B.A Marathi G1	Developed vision of literature amongst student
117	B.A. Marathi	Semester –II	11022	F.Y.B.A Marathi G1	2.Attended various trends and type of Marathi Literature.



118	B.A. Marathi	Semester –II	11022	F.Y.B.A Marathi G1	3. Developed the capacity of linguistic competence in order to confront the wor global comptition
119	B.A. ENGLISH	Semester –II	12001	Compulsory English F.Y.	1.Students are familiarized with excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of English
120	B.A. ENGLISH	Semester –II	12001	Compulsory English F.Y.	2. Students are exposed to native cultural experiences and situations in order to develop human values and social awareness
121	B.A. ENGLISH	Semester –II	12331	Optional English G1	1. Students are made aware of the basic units of language so that they become aware of the technical aspects and their practical usage
122	B.A. ENGLISH	Semester –II	12331	Optional English G1	Students are prepared to go for detailed study and     Understooding of literature and language
123	PIII)	Semester –III	23202	Population Geography-I (S1)	1. To understand the history of population
124	B.A.(Geogra phy)	Semester –III	23202	Population Geography-I(S-I)	2. To introduction of the basic concepts in population geography
125	B.A.(Geogra phy)	Semester –III	23203	Practical Geography-I( Scale &	To Enable students to use various scales and Projection techniques in Geography
126	phy)	Semester –III	23203	Practical Geography-I( Scale &	To Explain the elementary and essential Principles of     Practical work in geography
127	B.A.(Geogra phy)	Semester –III	2304	Environmental Geography-I ( G	To create the awarness about dynamic environment among the student
128	B.A.(Geogra phy)	Semester –III	2304	Environmental Geography-I ( G	2. To acquaint the student with fundamental concepts of environment Geography for development in different areas.
129	B.A.(Geogra phy)	Semester –III	23207	Applied Course of Disaster Mar	1. To inculcate critical thinking and Problem- solving abilities on disaster management
130	B.A.(Geogra phy)	Semester –III	23207	Applied Course of Disaster Mar	2. To Enable students to assess the situation and design plan for disaster management



131	B.A. Politics	Semester –III	23164	Politics G2	Study the concepts, ideas and theories in political theory. Role of different political ideologies and their impact in politics.
132	B.A. Politics	Semester –III	23162	Politics Special II	Complex relationship between the communication, media and power politics.
133	B.A. Politics	Semester –III	23165	Politics Special SEC	1. To acquaint students with the important features of the Constitution of India and with the basic framwork of Indian Government.
134	Economics	Semester –III	23153	G -2. Financial System-I	1.To understand the recent trends and developments in banking system.
135	Economics	Semester –III	23153	G -2. Financial System -I	2.To understand fundamentals of modern financial system.
136	B.A Economics	Semester –III	23151	S -1. Micro Economics -I	1.To develop an understanding about subject matter of Economics.
137	B.A Economics	Semester –III	23151	S -1. Micro Economics-I	2.To impart knowledge of Micro economics.
138	B.A Economics	Semester –III	23152	S -2. Macro Economics -I	1.To introduce students to the historical background of the emergence of Macro Economics
139	B.A Economics	Semester –III	23152	S -2. Macro Economics-I	2.To familiarize students with various concepts of national income
140	B.A Economics	Semester –III	23154	<b>SEC</b> Basic Concept of Research Methodology -I	1.To develop the understanding of the basic concept of research
141	B.A Economics	Semester –III	23154	<b>SEC</b> Basic Concept of Research Methodology -I	2.To identify various sources of information for data collection
142	B.A. Politics	Semester –III	23161	Politics Special I	Major traditions of thought that have shaped political discourse in different parts of the world. The great diversity of social contexts and philosophical visions.
143	B.A. Marathi	Semester –III	23021	Marathi Special Paper I	1. Made student aware of the historical tradition of Marathi Literature.
144	B.A. Marathi	Semester –III	23021	Marathi Special Paper I	Made student aware of Literature on the account of its background and inspiration behind literature and to give knowledge about it's nature
145	B.A. Marathi	Semester –III	23022	Marathi Special Paper II	1. Explore the process of development of the types of literature.



146	B.A. Marathi	Semester –III	23023	S.Y.B.A MarathiGeneral II	1.Introduced the student of the rules and regulations of the 'Shuddhalekhan'.
147	B.A. Marathi	Semester –III	23023	S.Y.B.A Marathi General II	2. Introduced the student of the rules and regulations of the 'Shuddhalekhan'
148	B.A. Marathi	Semester –III	23025	Marathi SEC2A	
149	B.A. ENGLISH	Semester –III	23001	Compulsory English S.Y.	1.Developed competence among the students for self-learning
150	B.A. ENGLISH	Semester –III	23001	Compulsory English S.Y.	2. Familiarize students with excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of English
151	B.A. ENGLISH	Semester –III	23333	Optional English G2	1. Students are exposed to the basics of short story as one of the literary forms
152	B.A. ENGLISH	Semester –III	23333	Optional English G2	2. Students are familiarized with different types of short stories in English
153	B.A. ENGLISH	Semester –III	23331	English Special I	1. Students are encouraged to Made a detailed study of a few sample masterpieces of English Drama from different parts of the world
154	B.A. ENGLISH	Semester –III	23331	English Special I	Interest is developed among the students to appreciate and analyze drama independently
155	B.A. ENGLISH	Semester –III	23332	English Special II	1. The students are familiarized with the terminology in poetry criticism (i.e. the terms used in critical analysis and appreciation of poems)
156	B.A. ENGLISH	Semester –III	23332	English Special II	2. Students are encouraged to Made a detailed study of a few sample masterpieces of English poetry
157	B.A. ENGLISH	Semester –III	23334	English SEC 2A	1. Enhancing the skill of using english for everyday communication
158	B.A. ENGLISH	Semester –III	23334	English SEC 2A	To acquaint the students with the verbal and non-verbal communication
159	B.A.(Geogra phy)	Semester –iv	24202	Population Geography-II (S1)	1. To introduce student to the Population policy of India and China
160	B.A.(Geogra phy)	Semester –IV	24202	Population Geography-II(S-I)	2. To understand the Health indicator in India



161	B.A.(Geogra phy)	Semester –IV	24203	Practical Geography-II( Cartographic Tech. surveying & Excursi.)(S2)	To introduce the Student to the basic and contemporary concept in geography
162	B.A.(Geogra phy)	Semester –IV	24203	Practical Geography-II( Cartographic Tech. surveying & Excursi.)(S2)	2. To introduced the latest concept regarding the modern cartography in the fild of geography
163	B.A.(Geogra phy)	Semester –IV	24204	Environmental Geography-II ( G-2)	To acquaint the about the past , present and future utility and potentials of natural resources
164	B.A.(Geogra phy)	Semester –IV	24204	Environmental Geography-II ( G-2)	2. To make aware student about the problem of environment its utilization and conservation in the view of sustainable development
165	B.A.(Geogra phy)	Semester –IV	24207	Applied Course of Travel and Tourism( SEC)	To develop basic framework to uderstand the various elements of tourism management
166	B.A.(Geogra phy)	Semester –IV	24207	Applied Course of Travel and Tourism( SEC)	2. To evaluate the roll of transport in Travel and Tourism industry
167	B.A.(Geogra phy)	Semester –IV	352201	Geography of india -I( S3)	1. To help the students to understand the inter relationship between the subject and the Society
168	B.A. Politics	Semester –IV	24164	Politics G2	2. Explained the evolution and usage of these concepts, ideas and theories with reference to individual thinkers both historically and analytically.
169	B.A. Politics	Semester –IV	24162	Politics Special II	Critical appraisal of practices of political image management, campaigns, propaganda and censorship.
170	B.A. Politics	Semester –IV	24165	Politics Special SEC	1. This paper focuses in detail on the political processes and the actual funtioning of the political system. It emphasizes on local influences that derive from social stratification of jatis, from language, religion, ethic and economic determinants and critically assesses its the political processes.
171	B.A Economics	Semester –IV	23153	G -2. Financial System-II	1.To provide the students the intricacies of Indian financial system for better financial decision making.

172	B.A Economics	Semester –IV	23153	G -2. Financial System -II	2.To provide the knowledge of various financial and non-financial institutions.
173	B.A Economics	Semester –IV	23151	S -1. Micro Economics -II	1.To help the students to prepare for varied competitive examinations
174	B.A Economics	Semester –IV	23151	S -1. Micro Economics-II	2.To develop an understanding of basic theories of micro economics and their application
175	B.A Economics	Semester –IV	23152	S -2. Macro Economics -II	1.To introduce students to the various instruments of monetary and fiscal policies
176	B.A Economics	Semester –IV	23152	S -2. Macro Economics-II	2.To introduce students to the role of monetary and fiscal policies in fulfilling the macroeconomic objectives of stability, full employment and growth.
177	B.A Economics	Semester –IV	23154	<b>SEC</b> Basic Concept of Research Methodology -II	1.To identify various sources of information for data collection
178	B.A Economics	Semester –IV	23154	<b>SEC</b> Basic Concept of Research Methodology -II	2.To develop the understanding of the conducting survey on various issues.
179	B.A. Politics	Semester –IV	24161	Politics Special I	1. The history of political thought as a series of critical, interconnected and open-ended conversations about the ends and means of the good life.
180	B.A. Marathi	Semester –IV	24021	Marathi Special Paper I	2. Made student aware of Literature on the account of its background and inspiration behind literature and to give knowledge about it's nature
181	B.A. Marathi	Semester –IV	24022	Marathi Special Paper II	1. Understood the scope of literature.
182	B.A. Marathi	Semester –IV	24023	S.Y.B.A General II	3. Explained scope of modern Marathi Literature.
183	B.A. Marathi	Semester –IV	24023	S.Y.B.A General II	4.Discussed about story, novel, Auto-biography and biography.
184	B.A. ENGLISH	Semester –IV	24001	Compulsory English S.Y.	Developed students' interest in reading literary pieces



185	B.A. ENGLISH	Semester –IV	24001	Compulsory English S.Y.	2. Exposed them to native cultural experiences and situations in order to develop human values and social awareness
186	B.A. ENGLISH	Semester –IV	24333	Optional English G2	1. Students are Enabledd to Understood the literary merit, beauty and creative use of language
187	B.A. ENGLISH	Semester –IV	24333	Optional English G2	2. Students acquired knowledge of some advanced units of language so that they become aware of the technical aspects and their practical usage
188	B.A. ENGLISH	Semester –IV	24331	English Special I	3. Students awareness is enhanced in the aesthetics of Drama and to empower them to evaluate drama independently
189	B.A. ENGLISH	Semester –IV	24331	English Special I	4. Students are acquainted and familiarized the students with the terminology in drama criticism (i.e.the term used in Critical Analysis and Appreciation of drama)
190	B.A. ENGLISH	Semester –IV	24332	English Special II	3.Students' awareness enhanced in the aesthetics of poetry
191	B.A. ENGLISH	Semester –IV	24332	English Special II	4. Students are empowered to read and appreciate poetry as a form of literature
192	B.A. ENGLISH	Semester –IV	34334	English SEC 2B	1. to develop interest among the students to interact in English
193	B.A. ENGLISH	Semester –IV	34334	English SEC 2B	2. to create opportunities to access exposure of speaking in various contexts.
194	B.A.(Geogra phy)	Semester –V	352201	Geography of india -I( S3)	2. To help the students to understand the recent trends in regional Studied
195	B.A.(Geogra phy)	Semester –V	35203	Practical Geography-I ( Techniques of Spatial analysis (S4)	To introduced the students with SOI toposheets and acquire the knowledge of toposheet interpretion
196	p , ,	Semester –V	35203	Practical Geography-I ( Techniques of Spatial analysis (S4)	2. To introduce the students with weather maps and acquire the knowledge of its interpretion
197	B.A.(Geogra phy)	Semester –V	35205	Geography of Turism -I G-3	1. To understand the types of tourism



198	B.A.(Geogra phy)	Semester –V	35205	Geography of Turism -I G-3	To gain knowledge different aspects of tourism geography
199	B.A.(Geogra phy)	Semester –V	35206	Reaserch Methodology -I (SEC)	To develop the understanding of the basic framework of sampling and data collection
200	B.A.(Geogra phy)	Semester –V	35206	Reaserch Methodology -I (SEC)	2. To develop the understanding of various sampling methods and techniques
201	B.A. Politics	Semester –V	35162	Politics Special IV	1. This paper deals with concepts and dimensions of International Relations and makes an analysis of different theories highlighting the major debates and differences with in the different theoretical paradigms. Approaches to the Study of International Relations
202	B.A. Politics	Semester –V	35162	Politics Special IV	2. Study the Changing Nature of the National Power. The dominant theories of power and the question of equity and justice, the different aspects of balance of power leading to the present situation of a unipolar world are included.
203	B.A Economics	Semester –V	35153	G3 Indian Economic Developme	1.To explain the characteristics of Developing and Developed Countries
204	B.A Economics	Semester –V	35153	G3 Indian Economic Developmo	2.To relate and recognize the concept and indicators of Economic Development.
205	B.A Economics	Semester –V	35151	S3 International Economics-I	1.To relate and recall the concepts of International Economics and International Trade.
206	B.A Economics	Semester –V	35151	S3 International Economics-I	2.To describe and apply the theories of international trade.
207	B.A Economics	Semester –V	35152	S4 Public Finance -I	1.To make students to analyze the role of Public Finance in Economic Development.
208	B.A Economics	Semester –V	35152	S4 Public Finance -I	2. To know the sources of Revenue, Expenditure and Debt of Govt. of India.
209	B.A Economics	Semester –V	35154	SEC Business Management-I	1.To develop Management of Business.



210	B.A Economics	Semester –V	35154	SEC Business Management-I	2.Leadership Skills- Ability to work in teams at the same time, ability to show leadership qualities
211	B.A. Politics	Semester –V	35163	Politics G3	This course will introduce the overall scope of the sub-discipline of Modern Political Analysis. The focus of the course will be on the Modern Political Analysis of Power. The emphasis is on the nature of power in modern societies. More in the form of organizations an social formations than as individual power.
212	B.A. Politics	Semester –V	35161	Politics Special III	This paper is an introductory course in Public Administration. The essence of Public Administration lies in its effectiveness in translating the governing philosophy into programmes, policies and activities and making it a part of community living.
213	B.A. Politics	Semester –V	35162	Politics Special IV	1. This paper deals with concepts and dimensions of International Relations and makes an analysis of different theories highlighting the major debates and differences with in the different theoretical paradigms. Approaches to the Study of International Relations
214	B.A. Marathi	Semester –V	35021	Marathi Special Paper III	3. Understood the process of origin Literature.
215	B.A. Marathi	Semester –V	35021	Marathi Special Paper III	4. Understood the language of literature.
216	B.A. Marathi	Semester –V	35022	Marathi Special Paper IV	1. Informed the students language and its scope and nature.
217	B.A. Marathi	Semester –V	35022	Marathi Special Paper IV	2. Understood various angles of study of Marathi Language.
218	B.A. Marathi	Semester –V	35023	T.Y.B.A Marathi General II	1.Discussed about story, novel, Auto-biography and biography.
219	B.A. Marathi	Semester –V	35023	T.Y.B.A Marathi General II	2.Explained importance of auto-biography and biography.
220	B.A. Marathi	Semester –V	35025	Marathi SEC2C (2)	



221	B.A. ENGLISH	Semester –V	35025	Compulsory English T.Y.	1. Introduced students to the best uses of language in literature.
222	B.A. ENGLISH	Semester –V	35025	Compulsory English T.Y.	2. Familiarized students with the communicative power of English
223	B.A. ENGLISH	Semester –V	35025	Compulsory English T.Y.	3. Enabled students to become competent users of English in real life situations
224	B.A. ENGLISH	Semester –V	35333	Optional English G3	1. students are made see how Indian English poetry expresses the ethos and culture of India
225	B.A. ENGLISH	Semester –V	35333	Optional English G3	2. Student Understood creative uses of language in Indian English Poetry
226	B.A. ENGLISH	Semester –V	35333	Optional English G3	3. Introduced students to some advanced areas of language study
227	B.A. ENGLISH	Semester –V	35331	English Special III	1. students familiarized to the basics of novel as a literary form
228	B.A. ENGLISH	Semester –V	35331	English Special III	2. students are exposed to the historical development and nature of novel
229	B.A. ENGLISH	Semester –V	35331	English Special III	3. students are made aware of different types and aspects of novel
230	B.A. ENGLISH	Semester –V	35332	English Special IV	1. students made aware of selected approaches to literature
231	B.A. ENGLISH	Semester –V	35332	English Special IV	2. students are familiarized to the basics of literary criticism
232	B.A. ENGLISH	Semester –V	35332	English Special IV	students are made aware of the nature and historical development of criticism
233	B.A. ENGLISH	Semester –V	35334	English SEC 2C	1. to develop overall personality of the students.
234	B.A. ENGLISH	Semester –V	35334	English SEC 2C	2. to equip the students with social skills.
235	phy)	Semester –vi	36201	Geography of india -II( S3)	1. To acquaint the student with geography of our nation
236	B.A.(Geogra phy)	Semester –VI	36201	Geography of india -II( S3)	2. To make the student aware of the magnitude of problems and prospectus at national Level



237	B.A.(Geogra phy)	Semester –VI	36203	' '	To understand the concept Geographical data and its basic analysis for students
238	Γ //	Semester –VI	36203	, , , , , , , , , , , , , , , , , , , ,	2. To understand the concept of testing and application of hypothesis
239	B.A.(Geogra phy)	Semester –VI	36205	Geography of Tourism -II (G-3	1. To understand the history of Tourism
240	B.A.(Geogra phy)	Semester –VI	36205	Geography of Tourism -II (G-3	2. To introduced the students to the basic concepts in tourism geography
241	phy)	Semester –vi	36206	Reaserch Methodology -II (SEC)	To identify various Sources of information for data     Collection
242	B.A.(Geogra phy)	Semester –VI	36206	Reaserch Methodology -II (SEC)	2. Understanding of the Conducting survey on various issues and develop the report writing skill of student
243	B.A Economics	Semester –VI	35153	G3 Indian Economic Developmo	1.To describe and explain the process of Economic Planning
244	B.A Economics	Semester –VI	35153	G3 Indian Economic Developmo	2.To describe and explain the relation between Economic Development and Environment.
245	B.A Economics	Semester –VI	35151	S3 International Economics-II	1. Ability to relate and explain the concept of Exchange Rate and Foreign Exchange Market.
246	B.A Economics	Semester –VI	35151	S3 International Economics-I	2.Ability to describe the trends in Growth, Composition and Direction of India's Foreign Trade.
247	B.A Economics	Semester –VI	35152	S4 Public Finance -II	1.To describe and analyze the concept of Deficit Financing and its effects.



248	B.A Economics	Semester –VI	35152	S4 Public Finance -II	2.To explain and assess the components and instruments of Fiscal Policy
249	B.A Economics	Semester –VI	35154	SEC Business Management-II	1.Analytical Skills – Ability to analyze data collected and interpret in the most logical manner
250	B.A Economics	Semester –VI	35154	SEC Business Management-II	2.Project Report Writing Skills- Ability to comprehend and illustrate/demonstrate findings
251	B.A. Politics	Semester –VI	35163	Politics G3	Students are also expected to understand different forms of justifications of power and the role of ideology in this regard.  State will be studied as a repository of power in society while class and patriarchy are two instance of how the nature of power is shaped by social factors
252	B.A. Politics	Semester –VI	35161	Politics Special III	The paper covers personnel public administration in its historical context thereby proceeding to highlight several of its categories, which have developed administrative salience and capabilities to deal with process of change. The recent developments and particularly the emergence of New Public Administrations are incorporated within the larger paradigm of democratic legitimacy.
253	B.A. Politics	Semester –VI	35162	Politics Special IV	2. Study the Changing Nature of the National Power. The dominant theories of power and the question of equity and justice, the different aspects of balance of power leading to the present situation of a unipolar world are included.
254	B.A. Politics	Semester –VI	35165	Politics Special SEC	This course is and introduction to the political process in Maharashtra with special reference to regionalism subregionalism and Samyukta Maharashtra Movement. The aim of the course is that students are expected to understand both the historical evolution of Maharashtra's politics and different analyses of politics of the state
255	B.A. Marathi	Semester –VI	35021	Marathi Special Paper III	1 . Understood the artistic value of literature.
256	B.A. Marathi	Semester –VI	35021	Marathi Special Paper III	2.Know the co-relation between Literature & Society



257	B.A. Marathi	Semester –VI	35022	Marathi Special Paper IV	1. Informed the students about the descriptive, Historical and comparative method, scope and difference of language.
258	B.A. Marathi	Semester –VI	35022	Marathi Special Paper IV	2. Made aware of the students about system of Marathi Language.
259	B.A. Marathi	Semester –VI	35025	Marathi SEC2D (2)	
260	B.A. ENGLISH	Semester –VI	36001	Compulsory English T.Y.	Exposed students to varied cultural experiences through     literature
261	B.A. ENGLISH	Semester –VI	36001	Compulsory English T.Y.	2. Contributed to their overall personality development by improving their communicative and soft skills
262	B.A. ENGLISH	Semester –VI	36333	Optional English G3	1. prepared students to go for detailed study and Understooding of literature and language
263	B.A. ENGLISH	Semester –VI	36333	Optional English G3	2.students are exposed to some of the best samples of Indian English Poetry
264	B.A. ENGLISH	Semester –VI	36331	English Special III	1. literary sensibility and sense of cultural diversity is developed in students
265	B.A. ENGLISH	Semester –VI	36331	English Special III	2.students are exposed to some of the best examples of novel
266	B.A. ENGLISH	Semester –VI	36331	English Special III	3. Developed the skills to critically examine novels independently
267	B.A. ENGLISH	Semester –VI	36332	English Special IV	1. students are familiarized with the significant critical approaches and terms
268	B.A. ENGLISH	Semester –VI	36332	English Special IV	2. students are encouraged to interpret literary works in the light of the critical approaches
269	B.A. ENGLISH	Semester –VI	36332	English Special IV	3. Developed students' aptitude for critical analysis
270	B.A. ENGLISH	Semester –VI	36334	English SEC 2D	1. to train the students interpersonal skills.
271	B.A. ENGLISH	Semester –VI	36334	English SEC 2D	2. to enhance leadership qualities.
272	M.Com	Semester –I	101	Management Accounting	1. The objective of the course is to Enabled students to acquire sound Knowledge of concepts, methods and techniques of management accounting.



273	M.Com	Semester –I	101	Management Accounting	2. Made the students develop competence with their usage in					
					managerial decision making and control					
274	M.Com	Semester –I	103	Advanced Accounting I	1.Lay a theoretical foundation of Accounting and A ccounting					
		Semester 1		/tavarreea /teebarreing /	Standards.					
275	M.Com	Semester –I	103	Advanced Accounting I	2.Gain ability to solve problems relating to Compa ny Accounts,					
2/5	WI.COIII	Semester –i	103	Advanced Accounting i	Valuations and special types of situations.					
276	NA Com	Competer	102	Advanced Assertation I	3.Made the students acquiented with the procedure, Pratice and					
276	M.Com	Semester –I	103	Advanced Accounting I	Regulation of Accountancy					
277	NA Com	Campanton	104	In come Toy II	1.Gain knowledge of the provisions of Income - tax including Rules					
277	M.Com	Semester –I	104	Income Tax II	pertaining there to, relating to the following topics.					
270			101		2.Developed ability to calculate taxable Income of 'Individual',					
278	M.Com	Semester –I	104	Income Tax II	'Hindu Undivided Family' and 'Firm' assesses.					
					1.The objective of the course is to Enabled st udents to acquire					
279	M.Com	Semester –II	201	Financial Analysis and Control	sound knowledge of concepts, methods and techniques of					
		Jemester II			management accounting					
					Made the students develop competence with their usage in					
280	M.Com	Semester –II	201	Financial Analysis and Control	managerial decision making and control.					
281	M.Com		202	Industrial Economics	1.Studied the basic concepts of Industrial Economics .					
					·					
282	M.Com	Semester –II	202	Industrial Economics	2.Studied the significance and problems of Industrilization.					
283	M.Com	Semester –II	202	Industrial Economics	3.Studied the impact of Industrialization on Indian Economy.					
					1.Developed competency of students to solve problems relating					
284	M.Com	Semester –II	203	Specialized Areas In Accounting III	Special areas in accounting including accounting for Services					
										Sector.
285	M.Com	Semester –II	203	Specialized Areas In Accounting III	2.Understood of Financial Reporting Practices.					
					3 students are familiarized with procedure of accounting for					
286	M.Com	Semester –II	203	Specialized Areas In Accounting III	Taxation.					
					1.Provided Understooding of Direct Taxes including Rules					
287	M.Com	Semester –II	204	Business Tax assesment and	pertaining there to and their application to different business					
20,	141.00111	semester –II	207	Planning IV	l					
				Dusiness Tay assessment and	situations.					
288	M.Com	Semester –II	204	Business Tax assesment and	2. students are understood principles underlying the Service Tax .					
1		1		Planning IV	· · · · · · -					



200	NA Care	Campactan II	204	Business Tax assesment and	3.Understood basic concepts of VAT, Excise Duty and  Customs	
289	M.Com	Semester –II	204	Planning IV	Duty	
290	M.Com	Semester –III	301	Business Finance	1.students acquired sound knowledge of concepts, nature and	
290	Wi.Com	Semester -m	301	Busiliess i illance	structure of business finance.	
291	M.Com	Semester –III	302	Research Methodology for	1.the students are acquainted with the areas of Business	
231	141.00111	Schlester III	302	Business	Research Activities.	
292	M.Com	Semester –III	302	Research Methodology for	2.Enhanced capabilities of students to conduct the research in	
232		ocinestei iii	302	Business	the field of business and social sciences.	
293	M.Com	Semester –III	302	Research Methodology for	3.Enabled students, in developing the most appropri ate	
				Business	methodology for their research studies.	
294	M.Com	Semester –III	302	Research Methodology for	4.Made them familiar with the art of using diffrent research	
				Business	methods and techniques.	
295	M.Com	Semester –III	303	Advanced Auditing V	1. Imparted knowledge and develop Understooding of methods	
					of auditing and their application.	
296	M.Com	Semester -III	304	Specialized Areas In Auditing VI	1. Imparted knowledge and develop Understooding of methods of	
				0 11 12 1 15	audit in Specialized areas.	
297	M.Com	Semester –IV	Semester –IV	401	Capital Market and Financial	1. Enabled students to acquire sound knowledge, concept and
				services	structure of capital market and financial services.	
298	M.Com	Semester –IV	402	Industrial Economics	1.Studied the basic concepts of Industrial Finance	
				Environment Industrial Economics		
299	M.Com	Semester –IV	402	Environment	2. Studied the effects of New Economic Policy.	
				Industrial Economics		
300	M.Com	Semester –IV	402	Environment	3. Studied the impact of Labor reforms on Industries.	
301	M.Com	Semester –IV	403	Recent Advances In Accounting,	1. Up-dated the students with latest developments in the Subject	
301		Semester IV	100	Taxation and Auditing VII	The product are students with facest developments in the subject	
					2. Inculcated the habit of referring to various periodicals and	
302	M.Com	Semester –IV	403	Recent Advances In Accounting,	publication s in the given subject, apart from text books and	
	30111			Taxation and Auditing VII	reference books	
				Recent Advances In Accounting,	3.Developed the ability to read, Understood, interpret and	
303	M.Com	Semester –IV	403	_		
				Taxation and Auditing VII	summarize various articles from newspapers, journals	



304	M.Com	Semester –IV	102	Strategic Management	1: Stuents are understood Strategic management in framing the policies and administration in adverse condition of the business.
305	M.Com	Semester –IV	103	Advanced accounting	Students acquiented with the procedure, Pratice and     Regulation of Accountancy
306	M.Com	Semester –IV	204	Business Tax assessment and planning	1:Taxation procedure policies and regulations are imporant aspect in business which is core value of the subject.
307	M.Com	Semester –IV	301	Business Finance	1: The Students are known about financial aspects of the business.
308	M.Com	Semester –IV	202	Industrial Economics	1: The Economical aspects related to industries are inculcated for the post graduate studnet in the curriculum.
309	M.Com	Semester –IV	403	Recent Advances in Accounting, Taxation & Auditing.	1. To enable the students to be abreast with the latest advances in the field of Accounting.
310	M.Com	Semester –IV	401	Capital Market and Financial Services	Student acquiented with the capital market so that they can enculcate the knowledge of raising the capital.
311	M.Com	Semester –IV	404	Project Work	1: The Students are developed anaylitical mind in the subject
312	BBA[CA]	Semester –I	CA-101	Business Communication	<ol> <li>To understand what is the role the role of communication in personal and business world.</li> <li>To understand system and communication and their utility</li> <li>To develop proficiency in how to write business letters and other communications in required.</li> </ol>
313	BBA[CA]	Semester –I	CA-102	Principles of Management	<ol> <li>To examining how various management principles</li> <li>To develop managerial skills among the students.</li> <li>To understand basic concept regarding org. Business Administration.</li> </ol>



314	BBA[CA]	Semester –I	CA-103	C Language	<ol> <li>Student learned Decision making, structure,</li> <li>Union &amp; all basics of C programming language,</li> <li>Explore algorithmic approaches to problem solving.</li> <li>Develop modular programs using control structures and arrays in 'C'.</li> </ol>
315	BBA[CA]	Semester –I	CA-104	Database Management System	<ol> <li>Solve real world problems using appropriate set, function, and relational models.</li> <li>Design E-R Model for given requirements and convert the same into database tables.</li> <li>Use SQL.</li> </ol>
316	BBA[CA]	Semester –I	CA-105	Statistics	To understand role and importance of statistics in various business situations     To develop skills related with basic statistical technique     Develop right understanding regarding regression, correlation and data interpretation
317	BBA[CA]	Semester –I	CA-106	Computer Laboratory Based on 103 &104 (2 credits each)	Students will be able to:  1 Devise pseudocodes and flowchart for computational problems.  2 Write, debug and execute simple programs in 'C'.  3 Create database tables in Oracles.  4 Write and execute simple, nested queries.  Guidelines
318	BBA[CA]	Semester –I	CA-107	Add-On (PPA) (30 Hours)	Explore algorithmic approaches to problem solving.     Develop modular programs using control structures and arrays .     Design and analysis of major classes of algorithm.



319	BBA[CA]	Semester –II	CA-201	Organization Behavior & Human Resource Management	1.To understand basic concepts of OB and HRM.  2. To make aware students about traditional & modern methods of procurement & development in organization.  3. To know the major trends in HRM & OB
320	BBA[CA]	Semester –II	CA-202	Financial Accounting	1.To develop right understanding regarding role and importance of monetary and financial transactions in business  2. To cultivate right approach towards classifications of different transactions and their implications  3. To develop proficiency preparation of basic financial as to how to write basis accounting statement - Trading and P&L
321	BBA[CA]	Semester –II	CA-203	Business Mathematics	1.To understand role and importance of Mathematics in various     business situations and while developing softwares.     2.To develop skills related with basic mathematical technique.
322	BBA[CA]	Semester –II	CA-204	Relational Database	<ol> <li>Enables students to understand relational database concepts and transaction management concepts in database system.</li> <li>Enables student to write PL/SQL programs that use: procedure, function, package, cursor and trigger.</li> </ol>
323	BBA[CA]	Semester –II	CA-205	Web Technology HTML-JS- CSS	1.To know & understand concepts of internet programming.     2. To understand how to develop web based applications using     JavaScript.



324	BBA[CA]	Semester –II	CA-206	Computer Laboratory Based on 204 & 205(2 credits each)	Students will be able to: 1.Practical and Actual working of constructing programs is done by students.
325	BBA[CA]	Semester –II	CA_207	Add-On (Advance C) (30 Hours)	1 Develop modular programs using control structures, pointers, arrays, strings and structures 2 Design and develop solutions to real world problems using C.
326	BBA[CA]	Semester –III	CA-301	Digital Marketing	<ol> <li>The aim of this syllabus is to give knowledge about using digital marketing in and as business.</li> <li>To make SWOT analysis, SEO optimization and use of various digital marketing tools.</li> </ol>
327	BBA[CA]	Semester –III	CA-302	Data Structure	<ol> <li>To understand the concepts of ADTs</li> <li>To learn linear data structures – lists, stacks, and queues</li> <li>To understand sorting, searching and hashing algorithms</li> <li>To apply Tree and Graph structures</li> </ol>
328	BBA[CA]	Semester –III	CA-303	Software Engineering	<ol> <li>To understand System concepts.</li> <li>To understand Software Engineering concepts.</li> <li>To understand the applications of Software Engineering concepts and Design in Software development.</li> </ol>



329	BBA[CA]	Semester –III	CA-304	РНР	Understand how server-side programming works on the web.     Using PHP built-in functions and creating custom functions     Understanding POST and GET in form submission.     How to receive and process form submission data.     Read and process data in a MySQL database.
330	BBA[CA]	Semester –III	CA-305	Big data	<ol> <li>To enable learners to develop expert knowledge and analytical skills in current and developing areas of analysis statistics, and machine learning</li> <li>To enable the learner to identify, develop and apply detailed analytical, creative, problem solving skills.</li> <li>Provide the learner with a comprehensive platform for career development, innovation and further study.</li> </ol>
331	BBA[CA]	Semester –III	CA-306	Computer Laboratory Based on 302, 304 and 305 (2 credits each)	Students will be able to: 1.Practical and Actual working of constructing programs is done by students.
332	BBA[CA]	Semester –III	307 AECC	Environment Awareness	To provide an opportunities to acquire the knowledge, values, attitudes, commitment, and skills needed to protect and improve the environment     To develop conscious towards a cleaner and better managed environment



333	BBA[CA]	Semester –IV	CA-401	Networking	<ol> <li>To gain knowledge about Computer Networks concepts.</li> <li>To know about working of networking models, addresses, transmission medias and connectivity devices.</li> <li>To acquire information about network security and cryptography.</li> </ol>
334	BBA[CA]	Semester –IV	CA-402	Object Oriented Concepts Through CPP	<ol> <li>Acquire an understanding of basic object-oriented concepts and the issues involved in effective class design.</li> <li>Enable students to write programs using C++ features like operator overloading, constructor and destructor, inheritance, polymorphism and exception handling.</li> </ol>
335	BBA[CA]	Semester –IV	CA-403	Operating System	<ol> <li>To know the services provided by Operating System</li> <li>To know the scheduling concept</li> <li>To understand design issues related to memory management and various related algorithms.</li> <li>To understand design issues related to File management and various related algorithms</li> </ol>
336	BBA[CA]	Semester –IV	CA-404	Advance PHP	<ol> <li>To know &amp; understand concepts of internet programming.</li> <li>Understand how server-side programming works on the web.</li> <li>Understanding How to use PHP Framework (Joomla / Druple)</li> </ol>



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337	BBA[CA]	Semester –IV	CA-405	Project	Students will be able to: 1. Detailed knowledge about SDLC ,ERD,DFD,Feasibility study, Designing Forms, Data Base Connectivity done by students.
338	BBA[CA]	Semester –IV	CA-406	Computer Laboratory Based on 402,404 (2 credits each)	Students will be able to: 1.Practical and Actual working of constructing programs is done by students.
339	BBA[CA]	Semester –IV	CA-407	ADD-On (30 Hours) Jquery	1.Learn how to enhance their web application using the JQuery script library.  2.Jquery can enhance productivity.  3.Client side data binding techniques.
340	BBA[CA]	Semester –V	CA-501	Cyber Security	<ol> <li>Have a good understanding of Cyber Security and the Tools.</li> <li>Identify the different types of Cyber Crimes.</li> <li>Have a good understanding of Cyber laws</li> <li>To develop Cyber forensics awareness.</li> <li>Identify attacks, security policies and credit card frauds in mobile and Wireless Computing Era</li> </ol>
341	BBA[CA]	Semester –V	CA-502	OOSE	<ol> <li>Students will be able to give Design Specifications for Project.</li> <li>Students will acquire Knowledge in Basic Modeling.</li> <li>Students will acquire Project Management Skills.</li> </ol>



342	BBA[CA]	Semester –V	CA-503	Core Java	<ol> <li>Able to solve real world problems using OOP techniques.</li> <li>Able to understand the use of abstract classes.</li> <li>Able to solve problems using java collection framework and I/o classes.</li> <li>Able to develop multithreaded applications with synchronization.</li> <li>Able to develop applets for web applications.</li> <li>Able to design GUI based applications</li> </ol>
343	BBA[CA]	Semester –V	CA-504	Python	<ol> <li>Define and demonstrate the use of built-in data structures "lists" and "dictionary".</li> <li>Design and implement a program to solve a real world problem.</li> <li>Design and implement GUI application and how to handle exceptions and files.</li> </ol>
344	BBA[CA]	Semester –V	CA-505	Project	Students will be able to: 1. Detailed knowledge about SDLC ,ERD,DFD,Feasibility study, Designing Forms, Data Base Connectivity done by students.
345	BBA[CA]	Semester –V	CA-506	Computer Laboratory Based on 503 and 504(2 credits each)	Students will be able to: Practical and Actual working of constructing programs is done by students.
346	BBA[CA]	Semester –V	CA_507	Add on Course-IOT(30 Hours)	Students will be able 1. To explain key technologies, smart objects, IoT Architecture and security in Internet of Things. 2. To illustrate the role of IoT protocols for efficient network communication. 3. To understand IoT platform such as Arduino Uno.



347	BBA[CA]	Semester –VI	CA-601	Recent Trends in Information Technology(Tutorial/Assignment)	On completion of the course, student will be able 1. To discuss the basic concepts AI. 2. To apply basic, intermediate and advanced techniques to mine the data. 3. To provide an overview of the concept of Spark programming.
348	BBA[CA]	Semester –VI	CA-602	Software Testing	<ol> <li>Students will be introduced to testing tools.</li> <li>Students will acquire Knowledge of Basic SQA.</li> <li>Students will be able to design basic Test Cases.</li> </ol>
349	BBA[CA]	Semester –VI	CA-603	Advanced Java	<ol> <li>Students will know the concepts of JDBC Programming.</li> <li>Students will know the concepts of Multithreading and Socket Programming.</li> <li>Students will know the concepts of Spring and Hibernate.</li> <li>Students will develop the project by using JSP and JDBC.</li> <li>Students will develop applications in Spring and hibernate.</li> </ol>
350	BBA[CA]	Semester –VI	CA-604	Dot Net framework	1.Use the features of Dot Net Framework along with the features of VB, C# and ASP 2. Design and develop window based and web based .NET applications. 3. Design and develop a Website. 4. Design and Implement database connectivity using ADO.NET for VB, C# and ASP.



351	BBA[CA]	Semester –VI	CA-605	Project	Students will be able to:  1. Detailed knowledge about SDLC ,ERD,DFD,Feasibility study, Designing Forms, Data Base Connectivity done by students.
352	BBA[CA]	Semester –VI	CA-606	Computer Laboratory Based on 603 and 604(2 credits each)	Students will be able to: 1.Practical and Actual working of constructing programs is done by students.
353	BBA[CA]	Semester –VI	CA-607	Add on Course-Soft Skills Training	<ol> <li>It helps participants to communicate effectively and to carry themselves confidently.</li> <li>They also learn how to identify and overcome the barriers in interpersonal relationships.</li> </ol>
354	B.Sc(CS)	Semester –I	CS-111	Problem solving using Computer & C Programming	Students will be able to:  1. Explore algorithmic approaches to problem solving.  2. Develop modular programs using control structures and arrays in 'C'.
355	B.Sc(CS)	Semester –I	CS-112	Database Management system	student will be able to—  1 Solve real world problems using appropriate set, function, and relational models.  2 Design E-R Model for given requirements and convert the same into database tables.  3 Use SQL.

356	B.Sc(CS)	Semester –l	CS-113	Practical Course based on CS111 and CS112	students will be able to:  1 Devise pseudocodes and flowchart for computational problems.  2 Write, debug and execute simple programs in 'C'.  3 Create database tables in postgreSQL.  4 Write and execute simple, nested queries.  Guidelines:
357	B.Sc(CS)	Semester –I	MTC-111	Matrix Algebra	student will be able to: 1) A students should be able to work with graphs and identify certain parameters and properties of the given graphs. 2) A students should be able to perform certain algorithms, justify why these algorithms work, and give some estimates of the running times of these algorithms.
358	B.Sc(CS)	Semester –I	MTC-112	Discrete Mathematics	student will be able to: 1) A students should be able to solve basic exercises of the type: given a graph with properties X, prove that the graph also has property Y. 2) A students should develop an appreciation for the literature on the subject and be able to read and present results from the literature.



359	B.Sc(CS)	Semester –I	MTC-113	Mathematics Practical based on MTC-112 AND MTC 111	student will be able to:  1)A students should be able to write cohesive and comprehensive solutions to exercises and be able to defend their arguments.
360	B.Sc(CS)	Semester –I	ELC-111	Semiconductor Devices and Basic ElectronicSystems	To study various types of semiconductor devices     To study elementary electronic circuits and systems
361	B.Sc(CS)	Semester –I	ELC-112	Principles of Digital Electronics	To get familiar with concepts of digital electronics     To learn number systems and their representation
362	B.Sc(CS)	Semester –I	ELC-113	Electronics Lab based on ELC- 111 and ELC-112	<ol> <li>To understand basic logic gates, Boolean algebra and K-maps</li> <li>To study arithmetic circuits, combinational circuits and sequential circuits</li> </ol>
363	B.Sc(CS)	Semester –I	CSST-111	Descriptive Statistics	Student will be able to—  1) To tabulate and make frequency distribution of the given data.  2) To use various graphical and diagrammatic techniques and interpret.
364	B.Sc(CS)	Semester –I	CSST-112	Mathematical Statistics	Student will be able to—  1) To compute various measures of central tendency, dispersion, Skewness and kurtosis.  2) To fit the Binomial and Poisson distributions.  3) To compute the measures of attributes.



365	B.Sc(CS)	Semester –I	CSST-113	Statistics Practical based on CSST-111 and CSST-112	Student will be able to— 1) The process of collection of data, its condensation and representation for real life data. 2) To study free statistical softwares and use them for data analysis in projec
366	B.Sc(CS)	Semester –II	CS-121	Advanced C-Programming	Student will be able to :-  1 Develop modular programs using control structures, pointers, arrays, strings and structures  2 Design and develop solutions to real world problems using C.
367	B.Sc(CS)	Semester –II	CS-122	RDBMS	Student will be able to—  1 Design E-R Model for given requirements and convert the same into database tables.  2 Use database techniques such as SQL & PL/SQL.  3 Explain transaction Management in relational database System.  4 Use advanced database Programming concepts
368	B.Sc(CS)	Semester –II	CS-123	Computer Science Lab Course based on 121 and 122	Students will be able to:  1 Write, debug and execute programs using advanced features in 'C'.  2 To use SQL & PL/SQL.  3 To perform advanced database operations



369	B.Sc(CS)	Semester –II	MTC-121	Linear Algebra	1.A student should be able to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations, terminology and recognize basic geometrical figures and graphical displays, state important facts resulting from their studies.  2 A student should get a relational understanding of mathematical concepts and concerned structures, and should be able to follow the patterns involved, mathematical reasoning.
370	B.Sc(CS)	Semester –II	MTC-122	Graph Theory	1.A student should get adequate exposure to global and local concerns that explore them many aspects of Mathematical Sciences.  2. A student be able to apply their skills and knowledge ,that is, translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.



371	B.Sc(CS)	Semester –II	MTC-123	Lab Course based on MTC- 121 and MTC 122	1. A student should be made aware of history of mathematics and hence of its past, present and future role as part of our culture.  2. A student be able to apply their skills and knowledge ,that is, translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.
372	B.Sc(CS)	Semester –II	ELC-121	InstrumentationSystems	<ol> <li>To study Instrumentation System</li> <li>To study various blocks of Instrumentation System</li> <li>To study Smart Instrumentation System</li> </ol>
373	B.Sc(CS)	Semester –II	ELC-122	Basics of Computer Organization	<ol> <li>To get familiar digital sequential circuits</li> <li>To study Basic computer Organization</li> <li>To study Memory architecture</li> </ol>
374	B.Sc(CS)	Semester –II	ELC-123	Lab Course based on ELC-121 and ELC-122	<ol> <li>To study Instrumentation System</li> <li>To study various blocks of Instrumentation System</li> <li>To study Smart Instrumentation System</li> <li>To get familiar digital sequential circuits</li> <li>To study Basic computer Organization</li> <li>To study Memory architecture</li> </ol>
375	B.Sc(CS)	Semester –II	CSST-121	Methods of Applied Statistics	Student will be able to :-  1 To fit various regression models and to find best fit.  2 To fit the Normal distribution.



376	B.Sc(CS)	Semester –II	CSST-122	Continuous Probability Dist. & Testing of hypothesis	Students will be able to 1) To understand the relationship between two variables using scatter plot. 2) To compute coefficient of correlation, coefficient of regression. 3) To understand the trend in time series and how to remove it.
377	B.Sc(CS)	Semester –II	CSST-123	Lab Course based on CSST- 121 and CSST-122	Student will be able to :-  1. To generate model sample from given distributions.  2.To understandthe importance and functions of different statistical organizations in the development of nation.
378	B.Sc(CS)	Semester –III	CS-231	Data structures and Algorithms	<ol> <li>To use well-organized data structures in solving various problems.</li> <li>To differentiate the usage of various structures in problem solution.</li> <li>Implementing algorithms to solve problems using appropriate data structures.</li> </ol>
379	B.Sc(CS)	Semester –III	CS-232	software Enginering	<ol> <li>Compare and chose a process model for a software project development.</li> <li>Identify requirements analyze and prepare models.</li> <li>Prepare the SRS, Design document, Project plan of a given software system</li> </ol>



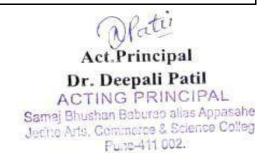
380	B.Sc(CS)	Semester –III	CS-233	Practical Course based on CS 232 and CS 233	1.Practical and Actual working of constructing data structure programs is done by students. 2.The students work independently throughout the project work including: problem identification, information searching, literature study, design and analysis, and the final reporting
381	B.Sc(CS)	Semester –III	MTC-231	Groups & Coding Theory	1. A student should be able to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations, terminology and recognize basic geometrical figures and graphical displays, state important facts resulting from their studies
382	B.Sc(CS)	Semester –III	MTC-232	Numerical Techniques	1. A student should get a relational understanding of mathematical concepts and concerned structures, and should be able to follow the patterns involved, mathematical reasoning.
383	B.Sc(CS)	Semester –III	MTC-233	Mathematics Practical: Python Programming Language	1.A student should get adequate exposure to global and local concerns that explore them many aspects of Mathematical Sciences.
384	B.Sc(CS)	Semester –III	ELC-231	Micro Controller Architecture & Programming	student will be able  1. To write programs for 8051 microcontroller  2. To interface I/O peripherals to 8051 microcontroller  3. To design small microcontroller based projects



385	B.Sc(CS)	Semester –III	ELC-232	Digital Communication & Networking	student will be able  1. Define and explain terminologies of data communication  2. Understand the impact and limitations of various digital modulation techniques  3. To acknowledge the need of spread spectrum schemes.  4. Identify functions of data link layer and network layer while accessing communication link  5. To choose appropriate and advanced techniques to build the computer network
386	B.Sc(CS)	Semester –III	ELC-233	Electronics Lab Practical Course (ELC-233)	student will be able 1. To design and build his/her own microcontroller based projects. 2. To acquire skills of Embedded C programming 3. To know multiplexing and modulation techniques useful in developing wireless application 4. Do build and test own network and do settings. Guidelines for



387	B.Sc(CS)	Semester –III	AECC-I	Environment Awareness-I	1.Master core concepts and methods from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions.  2.Appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems.  3.Understand the transnational character of environmental problems and ways of addressing them, including interactions across local to global scales.  4.Apply systems concepts and methodologies to analyze and understand interactions between social and environmental processes.
388	B.Sc(CS)	Semester –III	AECC-II	Language Communication-I	1.Students will heighten their awareness of correct usage of English grammar in writing and speaking Students will improve their speaking ability in English both in terms of fluency and comprehensibility 2.Students will give oral presentations and receive feedback on their performance 3.Students will increase their reading speed and comprehension of academic articles
389	B.Sc(CS)	Semester –IV	CS-241	Data Structures & Algorithms I	Implementation of different data structures efficiently     Usage of well-organized data structures to handle large amount of data     Usage of appropriate data structures for problem solving



390	B.Sc(CS)	Semester –IV	CS-242	Computer Network-I	Have a good understanding of the OSI and TCP/IP Reference Models and in particular have a good knowledge of Layers.     Understand the working of various protocols.     Analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies
	B.Sc(CS)	Semester –IV	CS-243	Practical Course based on CS 241 and CS 242	1.Practical and Actual working of constructing data structure programs is done by students.     2.computer networking assignments
391	B.Sc(CS)	Semester –IV	ELC-241	Embedded System Design	On completion of the course, student will be able 1. To understand the difference between general computing and the Embedded systems. 2. To know the fundamentals of embedded systems. 3. Understand the use of Single board Computer (Such as Raspberry Pi) for an embedded system application. 4. Familiar with the programming environment to develop embedded systems and their interfaces with peripheral devices. 5. To develop familiarity with tools used to develop in an embedded environment.



392	B.Sc(CS)	Semester –IV	ELC-242	Wireless Comm. & Internet of Things	Students will be able to 1. Know working of wireless technologies such as Mobile communication, GSM, GPRS 2. Become familiar with 3G and 4G Cellular Network Technologies for Data Connections. 3. Understand working principles of short range communication application 4. Get introduce to upcoming technology of Internet of Things 5. Explore themselves and develop new IoT based applications
	B.Sc(CS)	Semester –IV	ELC-243	Practical Course based on and ELC-241 AND ELC-242	students will be able 1. To design and develop own smart applications using Rasberry-Pi 2. To write Python program for simple applications 3. To build own IoT based system
	B.Sc(CS)	Semester –IV	MTC-241	Computational Geometry	1.A student be able to apply their skills and knowledge, that is, translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.
393	B.Sc(CS)	Semester –IV	MTC-242	Operation Research	1.A student should be made aware of history of mathematics and hence of its past, present and future role as part of our culture.



394	B.Sc(CS)	Semester –IV	MTC-243	Practical Course based on MTC-241 and MTC-242	1.A student be able to apply their skills and knowledge, that is, translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.
395	B.Sc(CS)	Semester –IV	AECC-I	Environmental Awareness-II	1.Students develop critical-thinking skills, analyze real-world problems, and understand the power of narrative to create sustainable solutions for local and global communities.
396	B.Sc(CS)	Semester –IV	AECC-II	Language Communication –II	1.Students will improve their reading fluency skills through extensive reading 2.Students will enlarge their vocabulary by keeping a vocabulary journal 3.Students will strengthen their ability to write academic papers, essays and summaries using the process approach.
397	B.Sc(CS)	Semester –V	CS-351	Operating Systems – I	Processes and Thread Scheduling by operating system     Synchronization in process and threads by operating system     Memory management by operating system using with the help of various schemes



398	B.Sc(CS)	Semester –V	CS-352	Computer Networks – II	1.Student will understand the different protocols of Application layer.  2.Develop understanding of technical aspect of Multimedia Systems  3. Develop various Multimedia Systems applicable in real time.  4.Identify information security goals.  5. Understand, compare and apply cryptographic techniques for data security.
399	B.Sc(CS)	Semester –V	CS-357	Practical course based on CS 35	<ol> <li>To understand the concept of process scheduling with the help of simulation.</li> <li>To study the concept demand paging concepts in operating system.</li> <li>To understand the working of operating system shell.</li> </ol>
400	B.Sc(CS)	Semester –V	CS-353	Web Technologies – I	1.To Design dynamic and interactive Web pages.     2.To Learn Core-PHP, Server Side Scripting Language     3.To Learn PHP-Database handling



401	B.Sc(CS)	Semester –V	CS-354	Foundations of Data Science	1. Perform Exploratory Data Analysis 2. Obtain, clean/process, and transform data. 3. Detect and diagnose common data issues, such as missing values, special values, outliers, inconsistencies, and localization. 4. Demonstrate proficiency with statistical analysis of data. 5. Present results using data visualization techniques. 6. Prepare data for use with a variety of statistical methods and models and recognize how the quality of the data and the means of data collection may affect conclusions.
402	B.Sc(CS)	Semester –V	CS-358	Practical course based on CS 353 and CS 354	1.To Design dynamic and interactive Web pages. 2.To Learn Core-PHP, Server Side Scripting Language 3.To Learn PHP- Database handling 4.To apply statistical, data preprocessing and visualization techniques on data sets
403	B.Sc(CS)	Semester –V	CS-355	Object Oriented Programming using Java-I	1.To learn Object Oriented Programming language 2. To study various java programming concept like Interface, File and Exception Handling etc. 3.To design User Interface using Swing and AWT
404	B.Sc(CS)	Semester –V	CS-356	Theoretical Computer Science	Understand the use of automata during language design.     Relate various automata and Languages.



405	B.Sc(CS)	Semester –V	CS-359	Practical Course based on CS 3	Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs.     Read and make elementary modifications to Java programs that solve real-world problems.     Validate input in a Java program.
406	B.Sc(CS)	Semester –V	CS-3510	Python Programming	To introduce programming concepts using python     Student should be able to develop Programming logic using python     To develop basic concepts and terminology of python programming     To test and execute python programs
407	B.Sc(CS)	Semester –V	CS-3511	Blockchain Technology	<ol> <li>Understand what and why of blockchain technology.</li> <li>Explore major components of blockchain.</li> <li>Learn about Bitcoin, Cryptocurrency and Ethereum.</li> <li>To learn blockchain programming using Python, Flask Web Framework, and HTTP client Postman.</li> </ol>
408	B.Sc(CS)	Semester –VI	CS-361	Operating Systems – II	<ol> <li>To understand the issue of Deadlocks in Process management.</li> <li>To understand the concept of File system management &amp; disk scheduling</li> <li>To study the concept of distributed and mobile operating systems</li> </ol>

409	B.Sc(CS)	Semester –VI	CS-362	Software Testing	<ol> <li>To understand various software testing methods and strategies.</li> <li>To understand a variety of software metrics, and identify defects and managing those defects for improvement in quality for given software.</li> <li>To design test cases and test plans, review reports of testing for qualitative software.</li> <li>To understand latest testing methods used in the software industries.</li> </ol>
410	B.Sc(CS)	Semester –VI	CS-367	Practical course based on CS 36	<ol> <li>Management of deadlocks by operating system</li> <li>File System management</li> <li>Disk space management and scheduling for processes</li> </ol>
411	B.Sc(CS)	Semester –VI	CS-363	Web Technologies – II	1. To Learn different technologies used at client Side Scripting Language 2.To Learn XML and XML parsers. 3.To One PHP framework for effective design of web application. 4.To Learn Java Script to program the behavior of web pages. 5.To Learn AJAX to make our application more dynamic.



412	B.Sc(CS)	Semester –VI	CS-364	Data Analytics	1. Use appropriate models of analysis, assess the quality of input, and derive insight from results.  2. Analyze data, choose relevant models and algorithms for respective applications  3. Understand different data mining techniques like classification, prediction, clustering and association rule mining  4. Apply modeling and data analysis techniques to the solution of real world business problems
413	B.Sc(CS)	Semester –VI	CS-368	Practical course based on CS 36	Build dynamic website.     Using MVC based framework easy to design and handling the errors in dynamic website.
414	B.Sc(CS)	Semester –VI	CS-365	Object Oriented Programming เ	To learn database programming using Java     To study web development concept using Servlet and JSP     To develop a game application using multithreading     To learn socket programming concep
415	B.Sc(CS)	Semester –VI	CS-366	Compiler Construction	<ol> <li>Understand the process of scanning and parsing of source code.</li> <li>Learn the conversion code written in source language to machine language.</li> <li>Understand tools like LEX and YACC</li> </ol>



416	B.Sc(CS)	Semester –VI	CS-369	Practical Course based on CS 3	To Learn database Programming using Java     Understand and Create dynamic web pagesusing Servlets and JSP.     Work with basics of framework to develop secure web applications
417	B.Sc(CS)	Semester –VI	CS-3610	Software Testing Tools	1.To understand various software testing methods and strategies. 2.To understand a variety of software metrics and identify defects and managing those defects for improvement in quality for given software. 3.To design test cases and test plans, review reports of testing for qualitative software. 4. To understand latest testing tools used in the software industries.
418	B.Sc(CS)	Semester –VI	CS-3611	Project	1. The students work independently throughout the project work including: problem identification, information searching, literature study, design and analysis, implementation, testing, and the final reporting
419	19 B. Sc. Medical Microbioloy- I		Medical Microbioloy- I	Students can learn about different bacterial pathogens, epidemiology, and diseases of human body systems.	
420	B. Sc.		MB- 352	Immunology – I	1.Students learn all the basic concepts about immunity, blood cell formation, and different organs in immunity. They gain knowledge of 3 lines of body's defence. They thoroughly understand about Antigens and Antibodies; They gain knowledge about Cell Mediated Immune Response, Transplantation and Immunity.



421	B. Sc.	MB-353	Enzymology	Student are able to understand about enzymes, enzyme assays, they gain knowledge about methods of purification of enzymes, Students studies about enzyme kinetics and calculate Vmax,Km, Kcat values, They are able to tell different methods of enzyme immobilization.
422	B.SC	MB- 354	Genetics	Student acquires knowledge of Gene Linkage and crossing over, DNA Replication, Prokaryotic and Eukaryotic Transcription and Translation, Techniques used in recombinant DNA technology.
423	B.SC	MB- 355	Fermentation Technology – I	Students learn about objectives and applications of industrial fermentation process, They learn basic steps like Media optimization, Sterilization, Scale-up and Scale-down.  Students learn about economics of fermentation, test of QA and OC.
424	B.SC	MB-356	Agriculture Microbiology	Students learn about objectives and applications of Agriculture microbiology. They will learn about role of soil micro-organisms in agriculture. Students gain knowledge of Agriculture Technology
425	B.SC	MB- 3511	Dairy Microbiology	Students will learn about dairy developments in India.  Students will understand milk chemistry and microbiology, they will learn about spoilage of milk and milk preservation methods, milk born infections.  Student will come to know techniques of Pasteurization and milk analysis.
426	B.SC	MB-3510	Marine microbiology	Students will get awareness of unseen and unexplored niche of marine ecosystem of microbes. To acquire advances in the knowledge of marine microbes and marine ecology. To learn the field research on marine processes and laboratory research on microorganisms. To comprehend the role of marine microbes in bioremediation and bioprospecting. To avail career opportunities in marine education, industry and research



427	BS.C	MB- 357	Practical course – I Based on  MB-351  MB-352	<ol> <li>Students can able to isolate and identify pathogens from clinicalsamples.</li> <li>They can perform hematology and hemogram analysis.</li> <li>They could able to perform epidemiologicalsurveys.</li> </ol>
428	BS.C	MB- 358	Practical course – II Based on MB-353 MB-354	<ol> <li>Students can learn clinical biochemistryexperiments.</li> <li>They can analyseproteins and carbohydrates qualitatively</li> <li>Student are able to make buffers, study enzyme kinetics and calculate Vmax, Km,</li> <li>Kcat values.</li> <li>They can make buffers, isolate genomic DNA, Plasmid DNA, could perform gelelectrophoresis.</li> </ol>
429	BS.C	MB- 359	Practical course -III  Based on  MB-355  MB-356	<ol> <li>Students are able to perform biochemical assays for vitamin andantibiotic,</li> <li>They can able to cultivate lactic acid bacteria, Bio- inoculants, Pesticide degrader.</li> <li>Students can learn different milktest.</li> <li>They can able to synthesize nanoparticles.</li> </ol>
430	B.SC	MB- 361	Medical Microbiology – II	Students can learn about chemotherapy, antibiotic resistance, and viral, fungal and protozoan pathogens.
431	B.SC	MB- 362	Immunology-II	Students can learn about Humoral immune response ,Cell mediated immune response ,Hypersensitivity ,Autoimmunity , Autoimmune disease, Immunodeficiency
432	B.SC	MB- 363	Metabolism	Students learn about Membrane transport mechanisms, Bioenergetics and laws of thermodynamics. They understand Biosynthesis and Degradation of macromolecules. They could able to understand photosynthesis process in bacteria.



433	B.SC	MB- 364	Molecular Biology	Student gain knowledge of methods of gene transfer by transformation, transduction and conjugation, They understand how to generate rDNA molecule, They can learn about important tools used in rDNA technology.
434	B.SC	MB- 365	Fermentation Technology - II	Here the students can learn about commercial scale productions of various products like: Primary Metabolites, Secondary metabolites, Enzymes, Biomass based products, Vaccines, Immune sera, Student can able to distinguish between Solid
435	B.SC	MB- 366	Food Microbiology	State Fermentation and Submerged Fermentation.  To describe food safety problems and solutions in India and global scale. Identify and classify types ofmicroorganisms in food processing and compare their Characteristics and behavior To learn food classification based on their perishability, intrinsic and extrinsic factors affecting the growth of microbes in foods, role of microorganisms in food fermentation.
436	B.SC	MB-3610	Waste management	Students will understand waste management and it practicable applicability.  To assess the magnitude and influence of hazardous content of waste, pollution of waters and waste water treatment technologies.  Students will learn the design and working of treatment plants and methods used for liquid and solid waste treatment.
437	B.SC	MB-3611	Nano-biotechnology	Students will understand design, development and application of Nanomaterials and their application in, nanodevices. To learn fundamentals of nanotechnology as to Synthesis and characterization techniques ofnanoparticles. To acquire knowledge of applications of nano-materials in different disciplines of human life. To compare the merits of using nanotechnology with existing technologies



438	B.SC		MB-367	Practical course I Based on Diagnostic Microbiology and Immunology	Here students will study about microbial pathogens by using permanent slides. Isolation of yeast/Fungal pathogen. Antibiotic sensitivity testing of the bacterial pathogens: The qualitative diagnosis of Plasmodium spps., Demonstrations of: Serum protein separation by electrophoresis, ELISA (Antigen/Antibody detection) Egg inoculation technique
439	B.SC		MB 368	Practical Course – II  Based on  Metabolism and Molecular Biology	Students will obtain knowledge about clinical biochemistry experiments along with enzyme production, purification quantification, immobilization Bacteriophage.
440	B.SC		MB 369	Practical Course-III Based on Fermentation Technology- II and Food Microbiology	Here students will get to know about fermentation at laboratory level.  Solid state fermentation, Probiotic micro flora,  Aflatoxin, TDP and TDT value, Determination of TDR and D value  HACCP guidelines for food industry
441	M.Sc	Semester –I	MB 501	Microbial systematics	1.This course gives idea about microbial classification.
442	M.Sc	Semester –I	Mb 502	Quantitative biology	2.Students get knowledge about quantitative analysis of the survey. report and the data collected, comparative account of the data.
443	M.Sc	Semester –I	MB 503	Biochemistry and Metabolish	3.Metabolism of proteins , lipids and carbohydrates. Catabolism and anabolism of all the three biomolecules
444	M.Sc	Semester –I	MBTE 11	Fungal systematics and Extr	Knowledge about fungal classification. As well as idea about the extreme conditions like temp , pH ,moisture where the microorganisms can grow.



			MBPE11	Practical based on Fundal sv	Specific media for the growth of Fungi, and
445	M.Sc	Semester –I		3 ,	extremophiles. Focussing the keys of the isolation and
					identification of fungi and extremophiles
			MBCP 1	Biochemical techniques (	Practicals based on Buffer preparation, Role of buffer
446	N4 C-	Camanatan		Practical based on	in media preparation, Different techniques like U.V.
446	M.Sc	Semester –I		Complusory theory credits)	Spectrophotometry, electrophoresis, chromatography
					etc.
			MB 601	Instrumentation and biophys	
447	M.Sc	Semester –II			Principle and techniques like different types of
447	101.50	Semester -m			chromatography, Electrophoresis,HPLC,Colorimetry ,
					U. V. Spectrometry etc.
			Mb 602	Molecular Biology	Methods of transcription and translations in prokaryotes
448	M.Sc	Semester –II			and eukaryotes etc. Cell division and cell cycle control
					by CDK Cyclins etc'
			MB 603	Enzymology ,Bioenergetics	
				and Metabolism	Thermodynamics, Enzymes classification, Isolation and
449	M.Sc	Semester –II			purification methods along with that specific activity,
					enzyme activity calculations. Study of intermittent
					metabolic products produced during metabolism
			MBTE 23	Nitrogen metabolism ,	Study in detail about Nitrogen cycle, isolation and
				respiration and	identification of Nitrogen fixing and nitrogen nonfixing
450	M.Sc	Semester –II		photosynthesis	bacteria. Along with that photosynthesis mechanism in
					different types of plants, C3 and C4 pathways, CAM
			1400000		pathways etc
				_	Preparation of selective media for the isolation and
451	M.Sc	Semester –II			identification of symbiotic and nonsymbotic bacteria ,
				photosynthesis	their confirmation, cell division steps etc.



452	M.Sc	Semester –II	MBCP 2	Molecular biology, Enzymology and instrumentation techniques ( Practical based on Complusory theory credits)	Practicals related to plasmid DNA extraction, Genomic DNA extraction, Transformation, Plasmid curing, Restriction endonuclease. To calculate enzyme activity, and specific activity of an enzyme, their purification methods.
453	M.Sc	Semester –III	MB 701	Immunology	Students get knowledge about Immune system mechanism , how the immune system acts against tumor and cancer cell. What are biological response modifiers.etc
454	M.Sc	Semester –III	Mb 702	Molecular Biology	Genetics behind cancer and Tumours . Various test to check the gene sequences, hereditary transferring diseases etc. , Chromosomal aberrations.
455	M.Sc	Semester –III	MB 703	Clinical Microbiology	Different types of diseases caused by bacteria , fungi, viruses, their habitat, multiplication rate , symptoms, Laboratory diagnosis, antibiotic sensitivity testing and prophylaxis etc.
456	M.Sc	Semester –III	MBTE 31	Cell culture techniques	What are cell line, continues cell lines. Cell cultures specificities of different cell lines. Meaning of Established cell line, suspension culture.and their use for identification of specific cancer.
457	M.Sc	Semester –III	MBPE 31	Practical based on cell culture technique	Specific media for the preparation cell line and cell cultre, role of each and every content in the medium
458	M.Sc	Semester –III	MBCP 3	( Practical based on Complusory theory credits)	Identification and Isolation of various pathogenic organism. Precipitation and agglutination. Qualitative and quatitative analysis of Antigen and Antibody etc.



459	M.Sc	Semester –IV	MB 801	Pharmaceutical Microbiology	What are anti-infective their mode of action, method to check susceptibility and resistance. Meaning of MIC, MBC. NCCS Norms in pharmacy, CLSI guidelines etc
460	M.Sc	Semester –IV	Mb 802	Microbiology technology	Different method used in fermentation industry. Batch fermentation , Continuous fermentation. Fed batch fermentation. Importatnt parts used in fermenter.
461	M.Sc	Semester –IV	MBTE 41	Quality assurance and validation in pharmaceutical industry and Development of Anti-infectives.	Role of quality department in pharmaceutical industry , Meaning of calibration and Validation of specific instrument. What is Standard Operating System
462	M.Sc	Semester –IV	MBPE41		S.O.P. methods of various instruments like incubator , Hot air oven ,Auto clave. Calculate MIC and MBC value of specific anti-infective. Antibiotic susceptibility testing. Reasons For antibiotic resist stance.
463	M.Sc	Semester –IV	MBTE 42	Advances in Microbial techno	Testing of MIC and MBC, different methods to check antibiotic resistance, Buffer preparation, Media preparation, preparation of dilution scheme according to CLSI guidelines etc.
464	M.Sc	Semester –IV	MBCP 4	Dissertation	Research project should be completed by a postgraduate student. They get the knowledge about to check proper research paper related to our topic. How to apply statistical analysis by ANNOVA or T test. How to prepare final thesis etc.









#### राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद

विश्वविद्यालय अनुदान आयोग का म्बायत संस्थान

### NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL An Autonomous Institution of the University Grants Commission

## Certificate of Accreditation

The Executive Committee of the National Assessment and Accreditation Council on the recommendation of the duly appointed Peer Jeam is pleased to declare the SBB Alias Appasaheb Jedhe

Arts, Commerce and Science College

Subhash Xagar, Dist. Pune, affiliated to Savitribai Phule Pune University, Maharashtra as

Accredited

with CSPA of 2.38 on seven point scale

at B grade valid up to September 25, 2023

Date: September 26, 2018







ECISCI/32/RAR/MHCOGN10641



LOCATION MAP Mamleda	ar Kacheri Swargate
Shivaji Road	•
Shri Shiraji Maratha Society's Appasaheb Jedhe College  N M Wadia	SBN: Mentons Eschange Shokrewer Pith  Shokrewe
Hospital Telephone Exchange	
Bajirao Road	To Saras Baug
	Ranas Ground Saras

### F.Y.B.A. (2019 Pattern CBCS)

	F.Y.B.A SEM-I							
SUB CODE	SUB CODE SEM SUB NAME							
11001	1	COMPULSORY ENGLISH - I	COMPULSORY					
11021	1	MARATHI SAHITYA : KATHA & BHASHIK KOUSHALYAVIKAS						
11201	1	PHYSICAL GEOGRAPHY						
11151	1	INDIAN ECONOMIC ENVIRONMENT - I	ANY 05 SUBJECTS					
11161	1	INTRODUCTION TO INDIAN CONSTITUTION						
11171	1	EARLY INDIA: FROM PREHISTORY TO THE AGE OF MAURYAS IE						
11331	1	OPTIONAL ENGLISH - I						

	F.Y.B.A SEM-II						
SUB CODE	SEM	SUB NAME					
12001	2	COMPULSORY ENGLISH - II					
22999	2	DEMOCRACY,ELECTION AND GOVERNANCE G	COMPULSORY				
G-1	2	PHYSICAL EDUCATION (Group-I, Sem-II)					
12021	2	MARATHI SAHITYA : AKANKIA & BHASIK KOUSHALYA VIKAS					
12201	2	HUMAN GEOGRAPHY					
12151	2	INDIAN ECONOMIC ENVIRONMENT - II	ANY 05				
12161	2	INTRODUCTION TO INDIAN CONSTITUTION - II	SUBJECTS				
12171	2	EARLY INDIA: POST MAURYAN AGE TO THE RASHTRAKUTAS					
12331	2	OPTIONAL ENGLISH-II					

### S.Y.B.A. Semester -III (2019 Pattern CBCS)

Group of Special	Paper	Sub. Type	Sub Code	Name of Subject	Credit	Type/Group	
		Comp.	23001	Compulsory English	3		
COMPULSORY	Comp.	MIL	23011	MIL -2 Marathil Bhashik Sandynapan Kaushalye	2	Α	Compulsory
		AEC	23999	Environmental Science	2		
	S <b>-</b> 1	DSE	23021	DSE-1A Adhunik Marathi Sahitya : Prakash Vata	3		
MARATHI	S <b>-</b> 2	DSE	23022	DSE-2A Sahitya Vichar	3		
SPECIAL	G-2	CC	23023	CC-1C Bhashik Kaushalyavikas Ani Adhunik Marathi Sahitya Prakar - Kadambari	3	В	
	SEC	SEC	23025	SEC -2A Prakashan Vyavahar Ani Sampadan	2		
	S-1	DSE	23151	DSE-1A Micro Economics -I	3		
ECONOMICS	S <b>-</b> 2	DSE	23152	DSE-2A Macro Economics -I	3		
SPECIAL	G-2	СС	23153	CC-1C Financial System -I	3	С	
	SEC	SEC	23154	SEC-2A Basic Concept Of Research Methodology -I	2		
	S-1	DSE	23161	DSE-1A Western Political Thought	3		SELECT ANY ONE Group
POLITICAL	S <b>-</b> 2	DSE	23162	DSE-2A Political Journalism	3		
SCIENCE SPECIAL	G-2	СС	23164	CC-2C An Introduction Of Political Ideologies 3		D	OUT OF B, C, D, E & F
	SEC	SEC-I	23165	SEC-2A Basics Of Indian Constitution	2		
	S-1	DSE	23202	DSE-1A GG220(A) Population Geography -I	3		
GEOGRAPHY SPECIAL	S <b>-</b> 2	DSE	23203	DSE-2A GG210(A) Practical Geography-1 (Scale & Projection)	3	E	
SPECIAL	G-2	СС	23204	CC-1C GG201(A) Environmental Geography -I	3		
	SEC	SEC	23207	SEC-2A Applied Course of Disaster Management	2		
	S-1	DSE	23331	DSE-1A Appreciating Drama	3		
ENGLISH	S <b>-</b> 2	DSE	23332	DSE-2A Appreciating Poetry	3		
SPECIAL	G-2	СС	23333	SEC-1A Advance Study Of English Language	3	F	
	SEC	SEC	23334	SEC-2A A Certificate Course in Skill Development (English)	2		
	G-2	CC	23023	23023 CC-1C Bhashik Kaushalyavikas Ani Adhunik MarathiSahityaPrakar-kadambari	3		
	G-2	СС	23153	CC-1C Financial System -I	3		ANNTHOSIS
GENERAL	G-2	СС	23164	CC-2C An Introduction Of Political Ideologies	3	G	ANYTWO Subject Excluding G 2- which was selected in
SUBJECT	G-2	СС	23204	GG201(A) Environmental Geography -I	3		B,C,D,E,F
	G-2	СС	23333	SEC-1A Advance Study Of English Language	3		
	G-2	СС	23174	CC-1 History of The Marathas : (1630-1707)	3		

Group-A (Compulsory)	3
Group-B,C,D,E,F,(Any One Group )	4
Group-G (Choose Any Two Subject Excluding G2, the subject which you have already chosen in Group-B,C,D,E,F)	2
Total Subject	9

DSE DISCIPLINE SPECIFIC ELECTIVE COURSE (DSE)
CC CORE COURSES
SEC SKILL ENHANCEMENT COURSE

### S.Y.B.A. Semester -IV (2019 Pattern CBCS)

Group of Special subject	Paper	Sub. Type	Sub Code	Name of Subject	Credit	Type/ Group	
		Comp.	24001	Compulsory English	3		
COMPULSORY	Comp.	MIL	24011	MIL -2 Navmadhyame Ani Samajmadhyamansathi Marathi	2	Α	Compulsory
		AEC	24999	AEC Environmental Science	2		
	S <b>-</b> 1	DSE	24021	DSE-2B Madhyayugin Marathi Sahitya: Nivdak Madhyayugin Gadya	3		
MARATHI	S <b>-</b> 2	DSE	24022	DSE-2B Sahitya Samiksha	3	В	
SPECIAL	G <b>-</b> 2	СС	24023	CC-1D Bhashik Kaushalyavikas Ani Adhunik Marathi Sahitya Prakar	3	В	
	SEC	SEC	24025	SEC -2B Upayojit Lekhan Kaushalye	2		
	S-1	DSE	24151	DSE-1B Micro Economics -II	3		
ECONOMICS	S <b>-</b> 2	DSE	24152	DSE-2B Macro Economics -II	3	С	
SPECIAL	G-2	СС	24153	CC-1D Financial System -II	3	C	
	SEC	SEC	24154	SEC-2B Basic Concept Of Research Methodology -II	2		
	S-1	DSE	24161	DSE-1B Western Political Thought	3		SELECT ANY ONE Group OUT OF B, C, D, E & F
POLITICAL SCIENCE	S <b>-</b> 2	DSE	24162	DSE-2B Political Journalism	3	D	
SPECIAL	G-2	СС	24164	CC-2D An Introduction to Political Ideologies	3		
	SEC	SEC-II	24165	SEC-2B Basics Of Indian Constitution	2		
	S <b>-</b> 1	DSE	24202	DSE-1B GG210(B) Population Geography -II	3		
GEOGRAPHY SPECIAL	S <b>-</b> 2	DSE	24203	DSE-2B GG220(B) Pract. GeoII (cartographic Tech.,Surveying & Excursion)	3	Е	
SPECIAL	G-2	СС	24204	CC-1D GG201(B) Environmental Geography -II	3		
	SEC	SEC	24207	SEC-2B Applied Course Of Travel & Tourism	2		
	S-1	DSE	24331	DSE-1B Appreaciating Drama	3		
ENGLISH	S <b>-</b> 2	DSE	24332	DSE-2B Appreaciating Poetry	3	F	
SPECIAL	G-2	СС	24333	SEC-1B Advance Study Of English Language	3	F	
	SEC	SEC	24334	SEC-2B A Certificate Course in Skill Development (English)	2		
	G <b>-</b> 2	CC	24023	CC-1D Bhashik Kaushalya Vikas Ani Adhunik Marathi Sahitya Prakar : L	3		
OFNEDAL	G-2	СС	24153	CC-1D Financial System -II	3		ANYTWO Subject
GENERAL SUBJECT	S <b>-</b> 2	DSE	24162	DSE-2B Political Journalism	3	G	Excluding G 2- which was
	G-2	СС	24204	CC-1D GG201(B) Environmental Geography -II	3		selected in B,C,D,E,F
	G-2	СС	24333	SEC-1B Advance Study Of English Language	3		
	G-2	СС	24174	CC-1 History of The Marathas : (1707 – 1818)	3		

Group-A (Compulsory)	3
Group-B,C,D,E,F,(Any One Group )	4
Group-G (Choose Any Two Subject Excluding G2 ,the subject which you have already chosen in Group-B,C,D,E,F )	2
Total Subject	9

DSE DISCIPLINE SPECIFIC ELECTIVE COURSE (DSE) CORE COURSES

CC

SEC SKILL ENHANCEMENT COURSE

#### T.Y.B.A. Semester - V (2019 Pattern CBCS)

	Paper	Sub.Type	Sub Code	Name of Subject	Credit	Туре	'Group
	Comp.	Comp.	35001	Compulsory English	3	А	Compulsory
	comp.	Comp.	35002	GE-2A Generic Elective	3	_ ^	Computsory
	S <b>-</b> 3	DSE	35021	DSC-1C Madhyugin Marathi Vagmyacha Sthul Itihas: Praram	4		
MARATHI	S-4	DSE	35022	DSC-2C Varnatmak Bhashavidnyan : Bhag 1	4		
SPECIAL	G-3	СС	35023	CC-1E Bhashik Kaushalyavikas Ani Aadhunik Marathi Sahitya Prakar : Pravasvarnn	3	В	
	SEC	SEC	35025	SEC-2C Karykram Sanyojnatil Bhashik Kaushalye : Bhag1	2		
	S <b>-</b> 3	DSE	35151	DSE-1C International Economics-I	3+1		
ECONOMICS SPECIAL	S-4	DSE	35152	DSE-2C Public Finance- I	3+1	С	
SPECIAL	G-3	СС	35153	CC-1E Indian Economic Development- I	3		
	SEC	SEC-III	35154	(SEC-2C) Skill Enchancement Course (Business Management-I)	2		
DOLUTION.	S <b>-</b> 3	DSE	35161	DSE-1C Public Administration	3+1		SELECTANY
POLITICAL SCIENCE	S-4	DSE	35162	DSE-2C International Relations	3+1	D	ONE Group OUT
SPECIAL	G-3	СС	35163	CC-1E Modern Political Analysis	3	"	OFB, C, D, E & F
	SEC	SEC	35165	SEC-2C Samyukta Maharashtra Movement	2		
	S <b>-</b> 3	DSE	35201	DSE-1C GG:320(A) Geography of India –I	3		
GEOGRAPHY SPECIAL	S-4	DSE	35203	DSE-2C GG:301Practical Geography – I (Techniques of Spatial Analysis)	4	E	
	G-3	СС	35205	CC1 E GG:310(A) Geography of Tourism-I	3		
	SEC	SEC	35206	SEC-2C Research Methodology - I	2		
	S <b>-</b> 3	DSE	35331	DSE-1C Appreciating Novel	3+1		
ENGLISH	S-4	DSE	35332	DSE-2C Introduction to Literary Criticism	3+1	F	
SPECIAL	G-3	СС	35333	SEC -1C Enhancing Employability Skills	3	-	
	SEC	SEC	35334	SEC –2C Mastering Life Skills and Life Values	2		
	G-3	СС	35023	CC-1E Bhashik Kaushalyavikas Ani Aadhunik Marathi Sahitya Prakar : Pravasvarnn	3		
	G-3	СС	35153	CC-1E Indian Economic Development- I	3		ANYTW0 Subject
GENERAL SUBJECT	G-3	СС	35164	CC-1E Modern Political Analysis	3	G	Excluding G 3- which was
JOBJECT	G-3	СС	35204	CC1 E GG 10(A) Geography of Tourism- I	3		selected in
	G-3	СС	35333	SEC-1C Enhancing Employability Skills	3		B,C,D,E,F
	G-3	СС	35174	CC-1 Indian National Movement : (1885-1947)	3		

Group-A (Compulsory)	2
Group-B,C,D,E,F,(Any One Group)	4
Group-G (Choose Any Two Subject Excluding G3, the subject which you have already chosen in Group-B,C,D,E,F)	2
Total Subject	8

DSE DISCIPLINE SPECIFIC ELECTIVE COURSE (DSE)

CC CORE COURSES

SEC SKILL ENHANCEMENT COURSE

### T.Y.B.A. Semester - VI (2019 Pattern CBCS)

	Paper	Sub.Type	Sub Code	Name of Subject	Credit	Type/ Group	
	C	C	36001	Compulsory English	3		Commuter
	Comp.	Comp.	36002	GE-2A Generic Elective		Α	Compulsory
MARATHI SPECIAL	S-3	DSE	36021	DSC-1D Madhyugin Marathi Vagmyacha Sthul Itihas: e.s.1601 te e.s.1817	4		
SI EGIAL	S-4	DSE	36022	DSC-2D Varnnatmk Bhashavidnyan: 2	4	В	
	G-3	СС	36023	CC-2E Bhashik Kaushalyavikas Ani Aadhunik Marathi Sahitya Prakar: Kavita	3	В	
	SEC	SEC	36025	SEC-2D Karykram Sanyojnatil Bhashik Kaushalye : 2	2		
	S <b>-</b> 3	DSE	36151	DSE-1D International Economics-II	3+1		
ECONOMICS	S-4	DSE	36152	DSE-2D Public Finance- II	3+1	С	
SPECIAL	G-3	СС	36153	CC-2E Indian Economic Development- II	3		SELECT ANY ONE
	SEC	SEC-IV	36154	(SEC-2D) Business Management-II (Project Report)	2		Group OUT OF
	S-3	DSE	36161	DSE-1D Public Administration	3+1		B, C, D, E & F
POLITICAL SCIENCE	S-4	DSE	36162	DSE-2D International Relations	3+1	D	
SPECIAL	G-3	СС	36163	CC-2E Modern Political Analysis	3	ט	
	SEC	SEC	36165	SEC-2D Samyukta Maharashtra Movement	2		
	S <b>-</b> 3	DSE	36201	DSE-1D GG:320(B)Geography of India -II	3		
GEOGRAPHY SPECIAL	S-4	DSE	36203	DSE-2D GG 301(B) Practical Geography – II (Techniques of Spatial Analysis, Surveying and Excursion / Village / Project Report	4	E	
	G-3	СС	36205	CC-1E GG:310(B) Geography of Tourism -II	3		
	SEC	SEC	36206	SEC-2D Research Methodology – II	2		
	S <b>-</b> 3	DSE	36331	DSE-1D Appreciating Novel	3+1		
ENGLISH	S-4	DSE	36332	DSE-2D Introduction to Literary Criticism	3+1	_	
SPECIAL	G-3	СС	36333	SEC-2D Enhancing Employability Skills	3	В	
	SEC	SEC	36334	SEC -2D Mastering Life Skills and Life Values	2		
	G-3	СС	36023	CC-2E Bhashik Kaushalyavikas Ani Aadhunik Marathi Sahitya Prakar: Kavita	3		
	G-3	СС	36153	CC-2E Indian Economic Development- II	3		ANYTWO Subject
GENERAL SUBJECT	G-3	СС	36164	CC-2E Modern Political Analysis	3	G	Excluding G 3- which was selected in
SUBJECT	G-3	СС	36205	CC-1E GG:310(B) Geography of Tourism -II	3		B,C,D,E,F.
	G-3	СС	36333	SEC-2D Enhancing Employability Skills	3		
	G-3	СС	36174	CC-1 India After Independence : (1947 - 1991)	3		

Group-A (Compulsory)	2
Group-B,C,D,E,F,(Any One Group)	4
Group-G (Choose Any Two Subject Excluding G3 ,the subject which you have already chosen in Group-B,C,D,E,F)	2
Total Subject	8

DSE DISCIPLINE SPECIFIC ELECTIVE COURSE (DSE)

CC CORE COURSES

SEC SKILL ENHANCEMENT COURSE

### F.Y.B.COM. (2019 Pattern CBCS)

	F.Y.B.COM SEM-I	
SUB CODE	SUBJECT NAME	
111	COMPULSORYENGLISH	
112	FINANCIAL ACCOUNTING -I	
113	BUSINESS ECONOMICS -I	COMPULSORY
114A	BUSINESS MATHEMATICS & STATISTICS -I	
12019- VA01_1	COMPUTERISED ACCOUNTING	
115B	BANKING & FINANCE -I	A NIV 01
115C	COMMERCIAL GEOGRAPHY -I	ANY 01
116B	INSURANCE & TRANSPORT - I	A N N / O1
116E	BUSINESS ENVIRONMENT & ENTREPRENEURSHIP -I	ANY 01
117A	ADDITIONAL ENGLISH	4.11/.04
117B	MARATHI -I	ANY 01
	F.Y.B.COM SEM-II	
SUB CODE	SUBJECT NAME	
121	COMPULSORY ENGLISH	
122	FINANCIAL ACCOUNTING - II	
123	BUSINESS ECONOMICS - II	
123 124A		COMPULSORY
	BUSINESS ECONOMICS - II	COMPULSORY
124A	BUSINESS ECONOMICS - II BUSINESS MATHEMATICS & STATISTICS - II	COMPULSORY
124A 12019- VA03_2	BUSINESS ECONOMICS - II  BUSINESS MATHEMATICS & STATISTICS - II  GENDER SENSITIVITY	COMPULSORY
124A 12019- VA03_2 2299	BUSINESS ECONOMICS - II  BUSINESS MATHEMATICS & STATISTICS - II  GENDER SENSITIVITY  DEMOCRACY, ELECTION AND GOVERNANCE	
124A 12019- VA03_2 2299 G-1	BUSINESS ECONOMICS - II  BUSINESS MATHEMATICS & STATISTICS - II  GENDER SENSITIVITY  DEMOCRACY, ELECTION AND GOVERNANCE  PHYSICAL EDUCATION (GROUP-1,SEM-II)	COMPULSORY  ANY 01
124A 12019- VA03_2 2299 G-1 125B	BUSINESS ECONOMICS - II  BUSINESS MATHEMATICS & STATISTICS - II  GENDER SENSITIVITY  DEMOCRACY, ELECTION AND GOVERNANCE  PHYSICAL EDUCATION (GROUP-1,SEM-II)  BANKING & FINANCE - II	ANY 01
124A 12019- VA03_2 2299 G-1 125B 125C	BUSINESS ECONOMICS - II  BUSINESS MATHEMATICS & STATISTICS - II  GENDER SENSITIVITY  DEMOCRACY, ELECTION AND GOVERNANCE  PHYSICAL EDUCATION (GROUP-1,SEM-II)  BANKING & FINANCE - II  COMMERCIAL GEOGRAPHY - II	
124A 12019- VA03_2 2299 G-1 125B 125C 126B	BUSINESS ECONOMICS - II  BUSINESS MATHEMATICS & STATISTICS - II  GENDER SENSITIVITY  DEMOCRACY, ELECTION AND GOVERNANCE  PHYSICAL EDUCATION (GROUP-1,SEM-II)  BANKING & FINANCE - II  COMMERCIAL GEOGRAPHY - II  INSURANCE & TRANSPORT - II	ANY 01

#### S.Y.B.COM. Semester - III (2019 Pattern CBCS)

Sub Code	Name of Subject	Credit	Group	Туре
231	BUSINESS COMMUNICATION - I	4		
232	CORPORATE ACCOUNTING - I	3		Compulsory
233	BUSINESS ECONOMICS - I	3	_	
234	BUSINESS MANAGEMENT - I	3	A	
235	ELEMENTS OF COMPANY LAW - I	3		
299	AECC-2 ENVIRONMENTAL AWARENESS	2		
236B	BANKING AND FINANCE - I	4	В	
	(OR)		OR	ANY ONE Group
236E	COST AND WORKS ACCOUNTING - I	4	С	

### S.Y.B.COM. Semester - IV (2019 Pattern CBCS)

Sub Code	Name of Subject	Credit	Group	Туре		
241	BUSINESS COMMUNICATION - II	4				
242	CORPORATE ACCOUNTING - II	3		Compulsory		
243	BUSINESS ECONOMICS - II	3				
244	BUSINESS MANAGEMENT - II	3	A			
245	ELEMENTS OF COMPANY LAW - II	3				
249	AECC-2 ENVIRONMENTAL AWARENESS	2				
246B	BANKING AND FINANCE - II	4	В			
	(OR)		OR	ANY ONE Group		
246E	COST AND WORKS ACCOUNTING - II	4	С			

#### T.Y.B.COM. Semester - V (2019 Pattern CBCS)

Sub Code	Name of Subject	Credit	Group	Туре
351	Business Regulatory Framework-I	3		
352	Advance accounting -I	3		0
353 A	Indian & Global Economic Development-I	3	Α	Compulsory
354	Auditing and Income tax -I	4		
355 B	Banking and Finance Special Paper II-I	4		
356 B	Banking and Finance Special Paper III-I	4	В	
	(OR)			ANY ONE Group
355 E	Cost and Works Accounting. Special Paper II-I	4	C	
356 E	Cost and Works Accounting. Special Paper III-I	4		

#### T.Y.B.COM. Semester - VI (2019 Pattern CBCS)

Sub Code	Name of Subject	Credit	Group	Туре
361	Business Regulatory Framework-II	3		
362	Advance Accounting -II	3		
363 A	Indian & Global Economic Development-II	3	Α	Compulsory
364	Auditing and Income tax -II	4		
365 B	Banking and Finance Special Paper II-II	4	Б	
366 B	Banking and Finance Special Paper III-II	4	В	
	(OR)		OR	ANY ONE Group
365 E	Cost and Works Accounting. Special Paper II-II	4		
366 E	Cost and Works Accounting. Special Paper III-II	4	С	

### F.Y.B.Sc. (Micro Biology) (2019 Pattern CBCS)

F.Y.B.Sc SEM-I		
SUB CODE	SUB NAME	
B0-111	PLANT LIFE AND UTILIZATION-I	
BO-112	PLANT MORPHOLOGY AND ANATOMY	
B0-113	PRACTICAL BASED ON B0111 & B0112	
CH-101	PHYSICAL CHEMISTRY	
CH-102	ORGANIC CHEMISTRY	
CH-103	CHEMISTRY PRACTICAL	All Compulsory
MB-111	INTRODUCTION TO MICROBIAL WORLD	
MB-112	BASIC TECHNIQUES IN MICROBIOLOGY	
MB-113	PRACTICAL COURCE BASED ON THEORY PAPER -I AND PAPER-II	
ZO-111	ANIMAL DIVERSITY -I	
ZO-112	ANIMAL ECOLOGY	
ZO-113	Z00L0GY PRACTICAL PAPER	
	F.Y.B.Sc SEM-II	
SUB CODE	SUB NAME	
BO-121	PLANT LIFE AND UTILIZATION -II	
B0-122	PRINCIPLES OF PLANT SCIENCE	
B0-123		
20 120	PRACTICAL BASED ON B0121 & B0122	
CH-201	PRACTICAL BASED ON B0121 & B0122 INORGANIC CHEMISTRY	
CH-201	INORGANIC CHEMISTRY	
CH-201 CH-202	INORGANIC CHEMISTRY ANALYTICAL CHEMISTRY	All Compulsory
CH-201 CH-202 CH-203	INORGANIC CHEMISTRY ANALYTICAL CHEMISTRY CHEMISTRY PRACTICAL-II	All Compulsory
CH-201 CH-202 CH-203 G-I	INORGANIC CHEMISTRY  ANALYTICAL CHEMISTRY  CHEMISTRY PRACTICAL-II  PHYSICAL EDUCATION (GROUP-I,SEM-II)	All Compulsory
CH-201 CH-202 CH-203 G-I MB-121	INORGANIC CHEMISTRY  ANALYTICAL CHEMISTRY  CHEMISTRY PRACTICAL-II  PHYSICAL EDUCATION (GROUP-I,SEM-II)  BACTERIAL CELL AND BIOCHEMISTRY	All Compulsory
CH-201 CH-202 CH-203 G-I MB-121 MB-122	INORGANIC CHEMISTRY  ANALYTICAL CHEMISTRY  CHEMISTRY PRACTICAL-II  PHYSICAL EDUCATION (GROUP-I,SEM-II)  BACTERIAL CELL AND BIOCHEMISTRY  MICROBIAL CULTIVATION AND GROWTH	All Compulsory
CH-201 CH-202 CH-203 G-I MB-121 MB-122 MB-123	INORGANIC CHEMISTRY  ANALYTICAL CHEMISTRY  CHEMISTRY PRACTICAL-II  PHYSICAL EDUCATION (GROUP-I,SEM-II)  BACTERIAL CELL AND BIOCHEMISTRY  MICROBIAL CULTIVATION AND GROWTH  PRACTICAL COURSE BASED ON THEORY PAPER -I AND II	All Compulsory
CH-201 CH-202 CH-203 G-I MB-121 MB-122 MB-123 ZO-121	INORGANIC CHEMISTRY  ANALYTICAL CHEMISTRY  CHEMISTRY PRACTICAL-II  PHYSICAL EDUCATION (GROUP-I,SEM-II)  BACTERIAL CELL AND BIOCHEMISTRY  MICROBIAL CULTIVATION AND GROWTH  PRACTICAL COURSE BASED ON THEORY PAPER -I AND II  ANIMAL DIVERSITY -II	All Compulsory

### S. Y. B. Sc. (Micro Biology) (2019 Pattern CBCS)

S.Y.B.Sc SEM - III			
SUB CODE	SEM	SUB NAME	
CH-301	III	Physical and Analytical Chemistry	
CH-302	III	Inorganic and Organic Chemistry	
CH-303	III	Chemistry Practical -III	
ZO-231	III	Animal Diversity-III	
ZO-232	==	Applied Zoology-I	
ZO-233	III	Zoology Practical Paper	COMPULSORY
EVS-231	III	Environment Awareness	
MB-231	Ш	Medical Microbiology and Immunology	
MB-232	==	Bacterial Physiology and Fermentation Technology	
MB-233	III	Practical based on Theory papers MB-231 and MB-232	
B0-231	Ш	Taxonomy of Angiosperms and Plant Ecology	
B0-233	III	Practical based on B0231& B0-232	
23321	III	English - AECC IIA	Optional
23331	III	Marathi - AECC IIB	any 1
		S.Y.B.Sc SEM - IV	
SUB CODE	SEM	SUB NAME	
011 101			
CH-401	IV	Physical and Analytical Chemistry	
CH-401 CH-402	IV IV	Physical and Analytical Chemistry  Inorganic and Organic Chemistry	
CH-402	IV	Inorganic and Organic Chemistry	
CH-402 CH-403	IV IV	Inorganic and Organic Chemistry Chemistry Practical -IV	
CH-402 CH-403 ZO-241	IV IV	Inorganic and Organic Chemistry Chemistry Practical -IV Animal Diversity-IV	COMPULSORY
CH-402 CH-403 Z0-241 Z0-242	IV IV IV	Inorganic and Organic Chemistry  Chemistry Practical -IV  Animal Diversity-IV  Applied Zoology-II	COMPULSORY
CH-402 CH-403 ZO-241 ZO-242 ZO-243	IV IV IV IV	Inorganic and Organic Chemistry Chemistry Practical -IV Animal Diversity-IV Applied Zoology-II Zoology Practical Paper	COMPULSORY
CH-402 CH-403 Z0-241 Z0-242 Z0-243 EVS-241	IV IV IV IV IV	Inorganic and Organic Chemistry Chemistry Practical -IV Animal Diversity-IV Applied Zoology-II Zoology Practical Paper Environment Awareness	COMPULSORY
CH-402 CH-403 Z0-241 Z0-242 Z0-243 EVS-241 MB-241	IV IV IV IV IV IV IV IV	Inorganic and Organic Chemistry Chemistry Practical -IV Animal Diversity-IV Applied Zoology-II Zoology Practical Paper Environment Awareness Bacterial Genetics	COMPULSORY
CH-402 CH-403 Z0-241 Z0-242 Z0-243 EVS-241 MB-241 MB-242	IV IV IV IV IV IV IV IV	Inorganic and Organic Chemistry Chemistry Practical -IV Animal Diversity-IV Applied Zoology-II Zoology Practical Paper Environment Awareness Bacterial Genetics Air,Water and Soil Microbiology	COMPULSORY
CH-402 CH-403 Z0-241 Z0-242 Z0-243 EVS-241 MB-241 MB-242 MB-243	IV IV IV IV IV IV IV IV IV	Inorganic and Organic Chemistry  Chemistry Practical -IV  Animal Diversity-IV  Applied Zoology-II  Zoology Practical Paper  Environment Awareness  Bacterial Genetics  Air,Water and Soil Microbiology  Practical based on Theory papers MB-241 and MB-242	COMPULSORY
CH-402 CH-403 Z0-241 Z0-242 Z0-243 EVS-241 MB-241 MB-242 MB-243 B0-241	IV	Inorganic and Organic Chemistry Chemistry Practical -IV Animal Diversity-IV Applied Zoology-II Zoology Practical Paper Environment Awareness Bacterial Genetics Air,Water and Soil Microbiology Practical based on Theory papers MB-241 and MB-242 Plant Anatomy and Embryology	COMPULSORY
CH-402 CH-403 Z0-241 Z0-242 Z0-243 EVS-241 MB-241 MB-242 MB-243 B0-241	IV	Inorganic and Organic Chemistry  Chemistry Practical -IV  Animal Diversity-IV  Applied Zoology-II  Zoology Practical Paper  Environment Awareness  Bacterial Genetics  Air, Water and Soil Microbiology  Practical based on Theory papers MB-241 and MB-242  Plant Anatomy and Embryology  Plant Biotechnology	COMPULSORY

### T.Y.B.Sc. (Micro Biology) (2019 Pattern CBCS)

T.Y.B.Sc SEM-V			
SUB	SEM	SUB NAME	
MB-351	٧	Medical Microbiology -I	
MB-352	٧	Immunology-I	
MB-353	٧	Enzymology	
MB-354	٧	Genitics	
MB-355	٧	Fermentation Technology - I	ALL COMPULSORY
MB-356	٧	Agricultural Microbiology	
MB-357	٧	Practical cource -I based on:MB-351 and MB-352	
MB-358	٧	Practical cource -II based on:MB-353 MB-354	
MB-359	٧	Practical cource -III based on:MB-355 & MB-356	
MB-3510	٧	Marine Microbiology	
		T.Y.B.Sc SEM-VI	
SUB	SEM	SUB NAME	
MB-361	VI	Medical Microbiology -II	
MB-362	VI	Immunology-II	
MB-363	VI	Metabolism	
MB-364	VI	Molucular Biology	
MB-365	VI	Fermentation Technology -II	
MB-366	VI	Food Microbiology	ALL COMPULSORY
MB-367	VI	Practical cource -I based on:MB-361and MB-362	00.11.0_00.11.
MB-368	VI	Practical cource -II based on:MB-363 MB-364	
MB-368	VI	Practical cource -III based on:MB-365 and MB-366	
MB-3610	VI	Waste Management	
MB-3611	VI	Nanobiotechnology	
MB-3511	٧	Dairy Microbiology	

### **F.Y. B.B.A - (CA) (2019 Pattern CBCS)**

Pattern 2019 SEMESTER- I		
Subject Code	Subject Name	
CA-101	Business Communication	
CA-102	Principles of Management	
CA-103	C Language	All
CA-104	Database Management System	Compulsory
CA-105	Statistics	
CA-106	Computer Laboratory Based on 103 &104	
107	Add-On course-PPA	
	SEMESTER- II	
Subject Code	Subject Name	
CA-201	Organization Behavior & Human Resource Management	
CA-202	Financial Accounting	
CA-203	Business Mathematics	
CA-204	Relational database	All
CA-205	Web Technology HTML-JS-CSS	Compulsory
CA-206	Computer Laboratory Based on 204 & 205	
207	Add-On course - Advance C	
22999	Democracy, Election & Governance	
G-1	Physical Education - Gr I Sem-II	

### S.Y.BBA - CA (2019 Pattern CBCS)

SEMESTER- III		
Subject Code	Subject Name	
CA-301	Digital Marketing	
CA-302	Data Structure	
CA-303	Software Engineering	
CA-304	PHP	
CA-305	Big data	
CA-306	Computer Laboratory Based on 302, 304 and 305	
307 AECC	Environment Awareness	

SEMESTER- IV		
Subject Code	Subject Name	
CA-401	Networking	
CA-402	Object Oriented Concepts Through CPP	
CA-403	Operating System	
CA-404	Advance PHP	
CA-405	Project	
CA-406	Computer Laboratory Based on 402 & 404	
4	J Query Add-on Course	

### T.Y.BBA - CA (2019 Pattern CBCS)

SEMESTER- V		
Subject Code	Subject Name	Course
CA-501	Cyber Security	СС
CA-502	00SE	СС
CA-503	Core Java	СС
CA-504	Python	EC
CA-505	Project	PJ
CA-506	Computer Laboratory Based on 503 and 504	PR
5	Add on Course-IOT	

SEMESTER- VI		
Subject Code	Subject Name	Course
CA-601	Recent Trends in Information Technology (Tutorial/Assignment)	ССТ
CA-602	Software Testing	СС
CA-603	AdvancedJava	СС
CA-604	Dot Net Framework	EC
CA-605	Project	PJ
CA-606	Computer Laboratory Based on 603 and 604	PR
6	Add on Course-Soft Skills Training	

F.Y. B.Sc. (Computer Sci.) (2019 Pattern CBCS)

Pattern 2019 Semester I		
Subject Code	Subject Name	
CS-111	Problem Solving using Computer and 'C' Programming	
CS-112	Database Management Systems	
CS-113	Practical course based on CS111 and CS112	
MTC-111	Matrix Algebra	
MTC-112	Discrete Mathematics	
MTC-113	Practical- Mathematics	All
ELC-111	Semiconductor Devices and Basic Electronics Systems	Compulsory Subjects
ELC-112	Principles of Digital Electronics	7
ELC-113	Electronics Lab – I A	
CSST-111	Descriptive Statistics - I	
CSST-112	Mathematical Statistics	7
CSST-113	Statistics Practical – I	
	Pattern 2019 Semester II	
Subject Code	Subject Name	
CS-121	Advanced 'C' Programming	
CS-122	Relational Database Management Systems	
	····································	
CS-123	Practical course based on CS201 and CS202	
CS-123 MTC-121	- '	
	Practical course based on CS201 and CS202	_
MTC-121	Practical course based on CS201 and CS202 Linear Algebra	
MTC-121 MTC-122	Practical course based on CS201 and CS202  Linear Algebra  Graph Theory	All
MTC-121 MTC-122 MTC-123	Practical course based on CS201 and CS202  Linear Algebra  Graph Theory  Pratical-Mathematics	Compulsory
MTC-121 MTC-122 MTC-123 ELC-121	Practical course based on CS201 and CS202  Linear Algebra  Graph Theory  Pratical-Mathematics  Instrumentation Systems	
MTC-121 MTC-122 MTC-123 ELC-121 ELC-122	Practical course based on CS201 and CS202  Linear Algebra  Graph Theory  Pratical-Mathematics  Instrumentation Systems  Basic of Computer Organization	Compulsory
MTC-121  MTC-122  MTC-123  ELC-121  ELC-122  ELC-123	Practical course based on CS201 and CS202  Linear Algebra  Graph Theory  Pratical-Mathematics  Instrumentation Systems  Basic of Computer Organization  Electronics Lab - I B	Compulsory
MTC-121  MTC-122  MTC-123  ELC-121  ELC-122  ELC-123  CSST-121	Practical course based on CS201 and CS202  Linear Algebra  Graph Theory  Pratical-Mathematics  Instrumentation Systems  Basic of Computer Organization  Electronics Lab – I B  Methods of Applied Statistics  Continous Probability Distributions &	Compulsory
MTC-121  MTC-122  MTC-123  ELC-121  ELC-122  ELC-123  CSST-121  CSST-122	Practical course based on CS201 and CS202  Linear Algebra  Graph Theory  Pratical-Mathematics  Instrumentation Systems  Basic of Computer Organization  Electronics Lab – I B  Methods of Applied Statistics  Continous Probability Distributions & Testing of Hypothesis	Compulsory

#### S. Y. B. Sc. (Computer Science) (2019 Pattern CBCS)

Semester - III (Total Credits=22)		
Subject Code	Subject Name	
CS-231	Data Structures and Algorithms – I	
CS-232	Software Engineering	
CS-233	Practical course based on 231 & 232	
MTC-231	Groups & Coding Theory	
MTC-232	Numerical Techniques	
MTC-233	Mathematics Practical	
ELC- 231	Microcontroller Arch. & Programming	
ELC- 232	Digital Communication & Networking	
ELC- 243	Electronics Practical course-I	
23921	Environment Science – I	
23922	Language Communication – I	

Semester - IV (Total Credits=22)		
Subject Code	Subject Name	
CS-241	Data Structures and Algorithms – II	
CS-242	Computer Networks - I	
CS-243	Practical course based on CS401	
MTC-241	Computaional Geometry	
MTC-242	Operation Reearch	
MTC-243	Mathematics Practical	
ELC- 241	Embedded System Design	
ELC-242	Wireless Communication	
ELC- 243	Electronics Practical course-I	
24921	Environment Science – II	
24922	Language Communication – II	

#### T. Y. B. Sc. (Computer Science) (2019 Pattern CBCS)

Semester - V (Total Credits=22)		
Subject Code	Subject Name	
CS-351	Operating Systems - I	
CS-352	Computer Networks - II	
CS-357	Practical course based on CS 351	
CS-353	Web Technologies - I	
CS-354	Foundations of Data Science	
CS-358	Practical course based on 353 & 354	
CS-355	Object Oriented Programming using JAVA- I	
CS-356	Theoretical Computer Science and Compiler Construction – I	
CS-359	Practical Course based on 355	
CS-3510	Python Programming	
CS-3511	Block Chain Technology	

Semester - VI (Total Credits=22)		
Subject Code	Subject Name	
CS-361	Operating Systems - II	
CS-362	Software Testing	
CS-367	Practical course based on 361	
CS-363	Web Technologies - II	
CS-364	Data Analytics	
CS-368	Practical course based on 363 & 364	
CS-365	Object Oriented Programming using JAVA-II	
CS-366	Compiler Construction - II	
CS-369	Practical Course based on 365	
CS-3610	Software Testing Tools	
CS-3611	Project	

### M.COM. Part I (2019 Pattern CBCS)

Semester -I		
Sub Code	Sub Code Name of Subject	
101	Management Accounting	4
102	Strategic Management	4
103	Advanced Accounting	4
104	Income Tax	4
191	Human Rights- I	1
192	Introduction to Cyber Security-I	1

Semester -II		
Sub Code	Sub Code Name of Subject	
201	Financial Analysis and Control/	4
202	A. Industrial Economics	4
203	Specialized Areas in Accounting	4
204	Business Tax Assessment & Planning	4
291	Human Rights-II	1
292	Introduction to Cyber Security-II	1

### M.COM Part II (2019 Pattern CBCS)

Semester -III		
Sub Code	Sub Code Name of Subject	
321	Business Finance	4
322	Research Methodology for Business	4
323	Advanced Auditing	4
324	Specialized Auditing	4
392	Introduction to Cyber Security-III	1
394	Skill Development-I	2
395	Introduction to Constitution	2

Semester -IV			
Sub Code	Sub Code Name of Subject		
421	Capital Market and Financial Services	4	
422 A	Industrial Economic Environment	4	
423	Recent Advances in Accounting, Taxation and Auditing	4	
424	Project Work/ Case Studies	4	
192	Introduction to Cyber Security-IV	1	
494	Skill Development-II	2	

#### M.Sc. Part I (Sem I)

SUB CODE	SEM	SUB NAME	
MB501	I	MICROBIAL SYSTEMATICS	COMPULSORY
MB502	ı	QUANTITATIVE BIOLOGY	
MB503	I	BIOCHEMISTRY AND METABOLISM	
MBCP1	ı	BIOCHEMICALTECHNIQUES (PRACTICALS BASED ON THEORYCREDITS)	COMPULSORY
MBTE 11	ı	FUNGAL SYSTEMATICS AND EXTREMOPHILES	
MBPE 11	ı	PRACTICALS BASED ON FUNGAL SYSTEMATICS AND EXTREMOPHILES	COURSES

#### M.Sc. Part 1 (Sem II)

SUB CODE	SEM	SUB NAME	
MB601	=	INSTRUMENTATION AND MOLECULA BIOPHYSICS	COMPULSORY
MB602	=	MOLECULAR BIOLOGY	
MB603	Ш	ENZYMOLOGY, BIOENERGETICS AND METABOLISM	
MBCP 2	Ш	MOLECULAR BIOLOGY, ENZYMOI INSTRUMENTATION (PRACTICALS BASED ON COMPULSORY	
MBTE 23	II	NITROGEN METABOLISM, RESPIRATION AND PHOTOSYNTHESIS	ELECTIVE
MBPE 23	=	PRACTICALS BASED ON NITROGEN METABOLISM, RESPIRATION AND PHOTOSYNTHESIS	COURSES

#### M.Sc. Part II (Sem III)

SUB CODE	SEM	SUB NAME	
CCTP 7 (MB 701)	III	IMMUNOLOGY	
CCTP 8 (MB 702)	III	MOLECULAR BIOLOGY	COMPULSORY
CCTP 9 (MB 703)	Ш	CLINICAL MICROBIOLOGY	
МВСР 3	III	PRACTICALS BASED COMPULSORYTHEO	
MBTE 32	III	BIOREMEDIATION AND BIOMASS UTILIZATION	
MBPE 32	111	PRACTICALS BASED ON BIO REMEDIATION AND BIOMASS UTILIZATION	ELECTIVE COURSES

#### M.Sc. Part II (Sem IV)

SUB CODE	SEM	SUB NAME	
CCTP 10 (MB 801)	IV	PHARMACEUTICAL MICROBIOLOGY	COMPULSORY
CCTP 11 (MB 802)	IV	MICROBIALTECHNOLOGY	
MBCP 4	IV	DISSERTATION	
MBTE 41	IV	QUALITY ASSURANCE AND VALIDATION IN PHARMACEUTICAL INDUSTRY AND DEVELOPMENT OF ANTI- INFECTIVES	ELECTIVE COURSES
MBPE41	IV	PRACTICALS BASED ON QUALI AND VALIDATION IN PHARMAC INDUSTRY AND DEVELOPMENT INFECTIVES	EUTICAL
MBPE 42	IV	PRACTICALS BASED ON ADVAI MICROBIAL TECHNOLOGY	NCES IN

#### **VALUE ADDED PROGRAMS**

The College encourages co-curricular activities so as to provide a platform to the students to develop their skills, talents and abilities. Students can take active part in the following activities of the College under the guidance and supervision of the Professor-in-charge.

- National Cadet Corps(N.C.C.)
- Commerce Association
- Drama Circle / Cultural Programs
- Elocution and Debating
- Community Work

- National Service Scheme (N.S.S.)
- Seminars/Workshops
- Wall Magazine
- Mock Interviews / Group Discussions and Sports Club
- Expert lectures for guidance on competitive
   Examinations and Career.
- Film Making, Acting Course

#### **GYMKHANA DEPARTMENT**

#### **ACHIEVEMENTS**

Inter Collegiate Kabaddi (Women) Championship (Second Time)

Students selected and Participated at All India National Inter University competition & Khelo India

- 1) Tejashree D. Nanaware -Cricket Silver Medal at West Zone Inter University level competition-At Rajasthan
- 2) Vrushali H. Uttekar Cross Country-12 KM At Vishakhapattan.
- 3) Siddhi Marathe Kabaddi at Banswara-Rajasthan.
- 4) Rode Manasi Kabaddi at Banswara-Rajasthan.
- 5) Mule Anjali Kabaddi at Banswara-Rajasthan.
- 6) Riddhi Marathe Kabaddi at Banswara-Rajasthan.

#### Sports Facilities

- Outdoor Game Volleyball, Throw ball, Kabaddi, Net Ball, Cricket, Athletics (Throwing, Running, etc.)
- **Indoor Games** Chess, Table Tennis, Weight lifting, Carrom, Yogasana.
- Other Facilities Sports Equipments provided to the students for practice & competition.
- College also provides Sports uniforms to the students at time of competition.
- College also gives incentive amount for travelling and daily allowances to the those students who participate in Inter Collegiate, Inter Zonal & All India Inter University level competition.

# Academic Year 2022-23

Program No.	Program	Program outcomes
1	B.A.	The students will be able to:  Understand economics concepts and problems of economics demand and supply law its variations, .Get knowledge of population demographic theory, poverty and unemployment and its measures of eradications.  Develop linguistic competence, Get knowledge of Various Genres of Literature, Get knowledge of Various Genres of Literature, Critically analyze the literary Works  .Get knowledge of Various Genres of Literature, Get knowledge of Various Genres of Literature, Critically analyze the literary Works
		Develop knowledge and get success in UPSC and MPSC competitive exams.,Get knowledge for Courses of Travel and Tourism, Surveyor, Geo-Develop competence to find causes, study the consequences and giving suggestions for Disaster Management and can actively participate where ever
		applicable.  Gain knowledge and guide about different tourist places with geographical, Historical, and Spiritual as well as aesthetic angle tourist places.
		Understand & explain the situation of Physio- Socio-Economic aspects of India, the Natural & Manmade Resources and its importance for life.
		Understand the role of human beings as conscious citizens, develop Constitutional awareness
2	B.Com	The students will be able to:  Develop business skills and entrepreneurship, aware about new technology implementation in banking sector, understand banks and its functions, acquire knowledge of accountancy after completing their graduation.
		Get knowledge about financial investment intuition especially in India, understand international financial intuitions functioning, its achievement and current status.  Gain knowledge about financial markets its functions, SBI role and controls get an idea about current scenario of Indian banking system.

Ī		
		Understand money and capital market, foreign exchange markets its
		workings, get knowledge on today's profile as an emerging economy
		Know the economic concepts, demand and
		supply variations, objectives of firms, demand forecasting, etc.
4	B.C.A.	1. Get knowledge required for planning, designing and building Complex
		Application Software Systems, develop sound academic base from which an
		advanced career in Computer Applications can be developed.
		2Develop practical skills to address problems in computer systems and
		applications, produce knowledgeable and skilled human resources which is
		employable in IT
		3 Develop practical skills to address problems in computer systems and
		applications,
		4 Acquire professional competence in developing software and in its design
		and implementation, develop basic statistical knowledge required for
		computer applications
		5.Develop basic statistical knowledge required for computer applications
		6. Develop sound academic base from which an advanced career in
		Computer Applications can be developed.
		7. Conceptual grounding in computer usage as well as its practical business
		application will be provided making
5	BBA	Develop sound academic base from which an advanced career in
	DD11	Computer Applications can be developed.
		2.Conceptual grounding in computer usage as well as its practical business
		application will be provided making
		3.Become globally competent.
		4. Acquire practical skills to address problems in computer systems and
		applications.
		5.Get statistical knowledge required for computer applications
6	D Co (Mioro)	The students will be able to:
0	B.Sc. (Micro)	
		1. Understands the physiology, genetics, biochemistry, medical microbiology
		and agricultural microbiology of bacteria and viruses and an
		2. Develop basic laboratory skills required for a career in either applied or
		research microbiology
		3. Develop their interest in general microbiology and acquire appropriate
		intellectual, scientific knowledge
		4.Develop advanced practical skills relevant to microbiology
		5. Understand laboratory-based investigations in microbiology applicable to
		studying microbial involvement in health, and disease
		6. Get employment in various industries like food industry, pharmaceutical
		and agriculture-based industry.
		7.Increase the knowledge of classification system of plants according to
		various scientists, Develop the practical skills relevant to botany



7	M.Com.	The students will be able to:
		1 : Get knowledge of the advances in accountancy especially in the area of corporate and service sector.
		2: Know the various managerial concepts including strategic managementuseful for success in business.
		3. Get knowledge of the research mythology in order to conduct in depth study of the subjects related to trade,
		commerce and Industry.
		4. Aware the current problems in businessenvironment So cyber law study and human rights are
		included as part of curriculum.
		5. Apply their current knowledge related to income tax including excise duty, service tax, GST and vat
		6. Get knowledge of the capital market
		7. Verify the methods of raising the finance its adverse and favorable effects.
8	M.Sc. (Micro)	The students will be able to:
		1. Get detailed information about the modern technologies used in
		diagnostics and research to enable them to apply these to complex problem solving in the investigation of disease
		2. Develop advanced practical skills relevant to microbiology, Interpret quantitative and qualitative data. Learn independently take responsibility for planning and organization of work both their own and in a team
		3. Work effectively and independently on a given project or task. Work effectively in small groups and teams towards a common Goal/outcome
		4. Acquire a number of transferable skills, including: design and execution of experiments (including working in a team); accessing information; interpretation of
		5. Understand the forefront of selected areas of microbial research, through lectures, directed studies and presentations as well as a lab-
		6. Increase their confidence level andbecome socially responsible person
		7.Get knowledge of fermentation process, design of bioreactor &its working

2.6.1 :- Courses outcomes for All Courses

Id	Program		Course	CourseName	Courses outcomes
		Je	Code		
1	B.Com	Semester –I	111	Compulsory English-I	The students will be able to:  1.Analyze good pieces of prose and poetry so that they realize the beauty and communicative power of English.
2	B.Com	Semester –I	111	Compulsory English-I	2. Get an exposure to native, cultural experiences and situations so that they Understood the importance and utility of English language
3	B.Com	Semester –I	112	Financial Accounting- I	The students will be able to:  1. Get knowledge of basic accounting concepts
4	B.Com	Semester –I	112	Financial Accounting- I	Create awareness about application of these concepts in business world
5	B.Com	Semester –I	113	Business Economics (Micro) - I	The students will be able to:  1. Develop knowledge of business economics
6	B.Com	Semester –I	113	Business Economics (Micro) - I	2. Understand basic theories, concepts of micro economics and their application
7	B.Com	Semester –I	114 (A)	Business Mathematics & Statistics- I	The students will be able to:  1. Apply applications of Statistics and Mathematics in Business
8	B.Com	Semester –I	114 (A)	Business Mathematics &	2. Analyze the data by using some elementary statistical methods
9	B.Com	Semester –I	115 - B	BANKING & FINANCE- I	1. Get knowledge of fundamentals of Banking
10	B.Com	Semester –I	115 - B	BANKING & FINANCE- I	2. Develop awareness about various banking concepts

11	B.Com	Semester –I	116 - B	Insurance and Transport- I	3. Understand the concepts of Insurance
12	D. Carre	Camaratan I	116 - B	Insurance and Transport- I	2. Get basic knowledge about Life Insurance, Fire Insurance and
12	B.Com	Semester –I			Marine Insurance.
13	B.Com	Semester –I	116 - E	Business Environment	1. Understand the concept of Business Environment and its aspects
				& Entrepreneurship - I	
		Semester –I		Business Environment	2. Examine personality competencies most common to majority of
14	B.Com		116 - E	& Entrepreneurship - I	successful entrepreneurs and to show how these competencies can
					be developed or acquired
15	B.Com	Semester –I	116 - E	Business Environment &	3. Generate entrepreneurial inspiration through the study of
				Entrepreneurship - I	successful Entrepreneurs
16	B.Co	Semester –I	115-	Commercial Geography	1.Students Understand the scope and content of
	m		С		commercial geography in relation to spatial distribution of agriculture,
					forest resources and industrial production
17	B.Com	Semester –I	115-C	Commercial Geography	2. Acquaints dynamic aspects of commercial geography.
18	B.Com	Semester –I	117-A	Additional English	1. Develop confidence to speak fluent English.
19	B.Com	Semester –I	117-A	Additional English	2. Develop the ability to use English language.
20	B.Com	Semester –II	121	Compulsory English-II	3. Develop linguistic competence and
					communicative skills.
					4. Develop oral and written communicative skills, so employability
21	B.Com	Semester –II	121	Compulsory English-II	enhances and English becomes the medium of their livelihood and
					personality.
22	B.Com	Semester –II	122	Financial Accounting- II	1.Impart knowledge of various software used in accounting
23	B.Com	Semester –II	122	Financial Accounting- II	2. Impart knowledge about final accounts of charitable trusts
24	B.Com	Semester –II	123	Business Economics (Micro) - II	1. Understand the basic concepts of micro economics.

25	B.Com	Semester –II	123	Business Economics (Micro) - II	2. Understand the tools and theories of economics for solving the problem of decision making by consumers and producers.
26	B.Com	Semester –II	124 (A)	Business Mathematics & Statistics- II	Understand the basic concepts in Finance and Business     Mathematics and Statistics
27	B.Com	Semester –II	124 (A)	Business Mathematics & Statistics- II	2. Learn some elementary statistical methods for analysis of Data
28	B.Com	Semester –II	125(B)	BANKING & FINANCE- II	Develop the working capability of students in banking sector
29	B.Com	Semester –II	125(B)	BANKING & FINANCE- II	2. Understand Banking Business and practices
30	B.Com	Semester –II	126 (B)	Insurance and Transport- II	1. Acquaint with the concepts of transport.
31	B.Com	Semester –II	126 (B)	Insurance and Transport- II	2. Create awareness regarding basic knowledge about transportation system in India.
32	B.Com	Semester –II	126 (E)	Business Environment & Entrepreneurship - II	Understand Nature - Comparison between entrepreneurial and non-entrepreneurial,
33	B.Com	Semester –II	126 (E)	Business Environment & Entrepreneurship - II	2. Understand Role of Entrepreneurship in economy
34	B.Com	Semester –II	126 (E)	Business Environment & Entrepreneurship - II	3. Prepare their mind set for taking up entrepreneurship as career.
35	B.Com	Semester –II	125-C	Commercial Geography-II	3.Get Knowledge about dynamic nature and industrial field
36	B.Com	Semester –II	125-C	Commercial Geography-II	4. Understand the relationship between the geographical factors and economic activities
37	B.Com	Semester –II	127-A	Additional English-II	Develop the ability to use English language.
38	B.Com	Semester –II	127-A	Additional English-II	2. Inculcate the Joy of Reading literary texts.

		231	Business Communication-I	Understand the concept, process and importance of
	-III			communication.
B.Com	Semester	231	Business Communication-I	2. Develop business communication skills through the application and
	-III			exercises.
B.Com	Semester	232	CORPORATE ACCOUNTING -I	1. Understand the conceptual aspect of corporate accounting.
	-III			
D. C	Semester	222	CORROBATE ACCOUNTING	2. Prepare final accounts of a company as per Schedule III of the
B.Com	-III	232	CORPORATE ACCOUNTING -I	Companies Act 2013
B.Com	Semester	233	BUSINESS ECONOMICS (MACRO)	1. Analyze basic Micro Economic concepts and inculcate an
	<b>–III</b>			analytical approach to the subject matter.
B.Com	Semester	233	BUSINESS ECONOMICS (MACRO)	2. Stimulate the interest by showing the relevance and use of various
	-III		,	economic theories.
B.Com	Semester	234	BUSINESS MANAGEMENT -I	Get basic knowledge and understanding about various
	-III			concepts of Business Management.
B.Com		234	BUSINESS MANAGEMENT -I	2.Understand the various functions of management
	-III			
B.Com	Semester	235	ELEMENTS OF COMPANY LAW	1.Impart with the knowledge of fundamentals of Company Law.
	-III			
B.Com	Semester	235	ELEMENTS OF COMPANY LAW	2. Update the knowledge of provisions of the Companies Act of
	-III			2013.
B.Com	Semester	236(B)	Banking and Finance-I	1. Get knowledge about Indian Banking System.
	-III	. ,		
B.Com	Semester	236(B)	Banking and Finance-I	2. Understand about the role of banking in economic
	-III	` '		development.
B.Com		236(E)	Cost and Works Accounting -I	Understand the basic concepts of cost.
	-III	. ,		·
B.Com		236(E)	Cost and Works Accounting -I	4. Prepare a cost sheet.
		(-)		' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
	3.Com 3.Com 3.Com 3.Com 3.Com 3.Com 3.Com 3.Com	-III  3.Com Semester -III	-III	III   Semester   232   CORPORATE ACCOUNTING -I

53	B.Com	Semester	241	Business Communication-II	1. Develop good communication skills requisite for
		-IV			business correspondence.
54	B.Com	Semester	241	Business Communication-II	2. Develop business communication skills through the application and
		–IV			exercises
		Semester			1. Acquaint with knowledge of corporate policies of investment for
55	B.Com	–IV	242	CORPORATE ACCOUNTING -II	expansion and growth through purchase of
					stake in or absorption of smaller units.
56	B.Com	Semester	242	CORPORATE ACCOUNTING -II	2. Introduce the recent trends in the field of
		–IV			accountancy
57	B.Com	Semester	243	BUSINESS ECONOMICS (MACRO)	1. Exposed to basic Micro Economic concepts and inculcate an
		–IV			analytical approach to the subject matter.
58	B.Com	Semester	243	BUSINESS ECONOMICS (MACRO)	2. Stimulate interest by showing the relevance and use of various
		–IV			economic theories.
59	B.Com	Semester	244	BUSINESS MANAGEMENT -II	1. Get the knowledge about motivating the staff.
		–IV			
60	B.Com	Semester	244	BUSINESS MANAGEMENT -II	2. Get knowledge about Emerging trends in Business management
		–IV			
61	B.Com	Semester	245	ELEMENTS OF COMPANY LAW- II	1. Develop general awareness among the students about
		–IV			management of company
62	B.Com	Semester	245	ELEMENTS OF COMPANY LAW- II	2. Understand Key managerial Personnel of company and their role in
02	b.Com	–IV	243	LELIVIENTS OF COMPANT LAW-II	Company administration.
63	B.Com	Semester	246(B)	Banking and Finance-II	1. Get knowledge of Cooperative Banking in India
		–IV			
64	B.Com	Semester	246(B)	Banking and Finance-II	2. Analyze the functioning of Development Banking
		–IV			
65	B.Com	Semester	246(E)	Cost and Works Accounting -II	Understand the documents used in stores and calculate
		–IV			the issuing price of material.
66	B.Com	Semester	246(E)	Cost and Works Accounting -II	2. Understand recent trends in cost accounting.
		-IV			

67	B.Com	Semester –V	351	Business Regulatory Framework	1. Get conceptual knowledge about the framework of business Law in
					India.
					2. Develop awareness about legal environment relating to the
68	B.Com	Semester –V	351	Business Regulatory Framework	Contract Law, Partnership Act, Sale of Goods Act in
					India.
69	B.Com	Semester –V	246(E)	ADVANCED ACCOUNTING – I	1. Get knowledge about various concepts, objectives, and applicability
09	b.Com	Semester –v	240(L)	ADVANCED ACCOUNTING -1	of some important accounting standards.
70	B.Com	Semester –V	246(E)	ADVANCED ACCOUNTING – I	2. Get knowledge for preparation of final accounts of a
70	b.Com	Semester –v	240(L)	ADVANCED ACCOUNTING -1	Banking Companies with the provisions of Banking Regulation Act
71	B.Com	Semester –V	353	Indian & Global Economic	Develop ability to analyze economic development
				Development	process of India.
72	B.Com	Semester –V	353	Indian & Global Economic	2. Impart knowledge about the relevance of economic
				Development	practices in modern competitive world.
		Semester –V	354	Auditing	1. Acquaint themselves about the Definition, Nature, Objectives and
73	B.Com				Advantages of Auditing, Types of Audit, Errors and Fraud, Audit
/3	b.Com				Program, Notebook, Working
					Paper. Internal Control. Check.
					2. Get knowledge about concept of Checking, Vouching,
74	B.Com	Semester –V	354	Auditing	Verification and Valuation, Types of Audit Report and Auditing
					Assurance Standard.
75	B.Com	Semester –V	355-B	Banking and Finance-Special	1. Acquaint with Indian Financial System
				Paper II	and its various segments.
76	B.Com	Semester –V	355-B	Banking and Finance-Special Pa	2. Aware of Indian Money Market.
77	B.Co	Semester –V	355	Cost and Works Accounting.	Introduce the cost accounting standards and the cost
	m		– e	Special Paper II	accounting standard board.
78	B.Com	Semester –V	356-B	Banking and Finance-Special Pa	Familiarize the Banking Laws and Practice in correlation
					to the Banking System in India.

79	B.Com	Semester –V	356-B	Banking and Finance-Special Pa	2. Understand the legal aspects of Banking transactions and its
79	b.Com	Semester –v	330-b	Balikilig allu Fillalice-Special Pa	implication as a Banker and as a customer.
80	B.Com	Semester –V	356 –E	Cost and Works Accounting	1. Understand the basic techniques in
				Special Paper III	Cost Accounting
81	P Com	Semester –V	356 –E	Cost and Works Accounting	2. Understand the application of Cost Accounting techniques in cost
01	B.COIII	Semester –v	330 -E	Special Paper III	control and decision making.
82	B.Com	Semester	361	Business Regulatory Framewor	1. Develop general awareness of Business Law among
		–VI			the students.
		Semester			2. Understand the various statutes containing regulatory
83	B.Com	–VI	361	Business Regulatory Framewor	mechanism of business and its relevant provisions including different
		-v1			types of partnerships
84	B.Com	Semester	362	ADVANCED ACCOUNTING – II	1. Get knowledge about the legal provisions regarding
04	B.COIII	–VI			preparation and presentation of final accounts of Co-operative
85	B.Com	Semester	362	ADVANCED ACCOUNTING – II	2. Understand the procedure and methods of analysis of
		–VI			financial statements.
86	B.Com	Semester	363	Indian & Global Economic Deve	1. Develop ability of students to analyze economic
		–VI			development process of India.
87	B.Com	Semester	363	Indian & Global Economic Deve	2. Get knowledge of recent trends in Human Development
		–VI			Index.
88	B.Co	Semester	364	Auditing & Tayation II	1. Understand the basic concepts of Income Tax Act,
00	m	–VI	304	Auditing & Taxation - II	1961 and create awareness of direct taxation among the students.
89	B.Com	Semester	364	Auditing & Taxation - II	2. Understand the income tax rules and regulations and
		–VI			its provisions.
90	B.Com	Semester	365-B	Banking & Finance-Special Pap	1 .Familiarize about various basic concepts of
		–VI			stock market.
91	B.Com	Semester	365-B	Banking & Finance-Special Pap	2 .Analyze the types and process of stock trading.
		–VI			
92	B.Com	Semester	365 – E	Cost and Works Accounting.	1. Get knowledge about the various methods of
		–VI		Special Paper II	costing.

		Semester		Cost and Works Assounting	2. Understand the applications of different methods of costing in
93	B.Com		365 – E	Cost and Works Accounting.	2. Understand the applications of different methods of costing in
		–VI		Special Paper II	manufacturing and service industries.
94	B.Com	Semester	366-B	Banking & Finance-Special	1. Familiarize about concept and types
		–VI		Paper III	cybercrimes in banking
95	B.Com	Semester	366-B	Banking & Finance-Special	2. Understand the aspects of paying and collecting
		–VI		Paper III	banker.
96	B.Com	Semester	366 – E	Cost and Works Accounting	1. Impart knowledge about Standard Costing and
		–VI		Special Paper III	Variance Analysis
97	B.Com	Semester	366 – E	Cost and Works Accounting	2. Learn about pricing policy and its implementation.
		–VI		Special Paper III	
98	B.A.(Geo	Semester –I	11201	Physical Geography	1. Introduce the concept of physical geography
	gra			, , , ,	
	phy)				
99		Semester –I	11201	Physical Geography	2. Understand basic concept of physical geography
	gr a		11201	Tinysical Geography	21 of the fistering states contespt of physical geography
	phy)				
100	B.A.	Semester –I	11161	Politics G1	1.Study in detail the political structure both Constitutional and
100	Politics	Semester -	11101	l'ontics d'i	Administrative.
	B.A				
101		C	44454	G-1 Indian Economic	1.Provide with the background of the Indian Economy
101		Semester –I	11151	Environment	with focus on contemporary issues like economic environment.
	CS			C 4 Indian Factoria	
102		Semester –I	11151	G-1 Indian Economic	2. Develop an understanding of the economic
				Environment	environment and the factors affecting economic environment.
103	B.A.	Semester –I	11021	F.Y.B.A Marathi G1	1. Create, interest about Literature.
	Marathi				
104	B.A.	Semester –I	11021	F.Y.B.A Marathi G1	2. Aware about Marathi Literature, Marathi Language and Marathi
	Marathi				Culture.
105	B.A.	Semester –I	11021	F.Y.B.A Marathi G1	3. Develop the sense of awareness about literature amongst student
	Marathi				

106	B.A.	Semester –I	11001	Compulsory English F.Y.	1. Develop grammatical skills and accuracy
100	ENGLIS	Jennester 1	11001	Compaisory English Title	1. Develop grammatical skills and decaracy
	H				
107	B.A.	Semester –I	11001	Compulsory English F.Y.	Develop writing skills and comprehension of literature
107	ENGLISH		11001	Compulsory English 1.1.	2. Develop writing skins and comprehension of interacture
108			11331	Optional English G1	Understand the basics of literature and language
108	ENGLIS	Semester –i	11331		11. Officerstation the basics of literature and language
109	H B.A.	Semester –I	11331	Optional English G1	Familiarize with different types of literature in English, the literary
109	ENGLIS	Semester –i	11331		· · ·
					devices and terms so that they Understand the literary merit,
110	H D A /Cook	Camaratan II	12201	H Caarmanh	beauty and creative use of language
110	-	Semester –II	12201	Human Geography	1. Introduce the concept of Human geography
	gr a				
	phy)		12201		
111	-	Semester –II	12201	Human Geography	2. Understand basic concept of Human geography
	gr a				
	phy)				
1 112	B.A.	Semester –II	12161	Politics G1	1. Familiarize students with the working of the Constitution of India.
	Politics				Study the political processes and the actual functioning of the political
113	Marat	Semester –II		Modern Indian language Marathi	1-Ůभािषक कौशल याची <b>ग</b> िषकिसर करणे
	hi				
114	B.A	Semester –II	11152	G-1 Indian Economic	1.Familiarize the students with the recent developments in the Indian
	Economi			Environment	Economy
	CS				
115	B.A	Semester –II	11152	G-1 Indian Economic	2.Compare and contrast Indian Economy with other world economies.
	Economi			Environment	
	CS				
116	B.A.	Semester –II	11022	F.Y.B.A Marathi G1	Develop vision of literature amongst student
	Marathi				

117	B.A.	Semester –II	11022	F.Y.B.A Marathi G1	2. Attend various trends and type of Marathi Literature.
	Marathi				
118	B.A.	Semester –II	11022	F.Y.B.A Marathi G1	3.Develop the capacity of linguistic competence in order to confront
	Marathi				the world global competition
	B.A.				1.Familiarize with excellent pieces of prose and poetry in English so
119	ENGLIS	Semester –II	12001	Compulsory English F.Y.	that they realize the beauty and communicative power of English
	Н				
	B.A.				2. Expose to native cultural experiences and situations in order to
120	ENGLIS	Semester –II	12001	Compulsory English F.Y.	develop human values and social awareness
	Ιн			, , ,	· ·
	B.A.				1. Understand basic units of language so that
121	FNGLIS	Semester –II	12331	Optional English G1	they become aware of the technical aspects and their practical usage
	H			a process and see a	they become aware of the technical aspects and their practical asage
122	B.A.	Semester –II	12331	Optional English G1	2. Prepare detailed study and Understand literature and language
	ENGLISH				
123	1	Semester	23202	Population Geography-I (S1)	1. Understand the history of population.
120	gr a	-III		l sparation deagrapmy (61)	The macrotana the motory of populations
	phv)	""			
124	· · · / /	Semester	23202	Population Geography-I(S-I)	2. Introduce of the basic concepts in population
124	gr a phy)				Geography.
125		Semester	23203	Practical Geography-I( Scale &	Enable to use various scales and Projection
123			20200	Scale &	· ·
126	gr a phy)		23203	Dractical Coography I/ Scale 9	techniques in Geography
126	1	Semester	23203	Practical Geography-I( Scale &	2. Explain the elementary and essential Principles of
	gr	-III			Practical work in geography
	a phy)	_			
127	B.A.(Geo	Semester	2304	Environmental Geography-I ( G	1. Understand about dynamic environment
	gr	<b>–III</b>			
	a phy)				

1 1/8 1	B.A.(Geo gr a phy)	Semester –III	2304	Environmental Geography-I ( G	Acquaint with fundamental concepts of environment Geography for development in different areas.
129	B.A.(Geo	Semester	23207	Applied Course of Disaster Man	Inculcate critical thinking and Problem- solving abilities
	gr	<b>–III</b>			on disaster management
	a phy)				
130	B.A.(Geo	Semester	23207	Applied Course of Disaster Man	2. Enable to assess the situation and design plan
	gr	<b>–III</b>			for disaster management.
	a phy)				
	B.A.	Semester			1. Study the concepts, ideas and theories in political theory. Role of
I 131 I	Politics	-III	23164	Politics G2	different political ideologies and their
	FUILICS	-111			impact in politics.
132	B.A.	Semester	23162	Politics Special II	2. Understand complex relationship between the communication,
	Politics	<b>–III</b>			media and power politics.
133	B.A.	Semester	23165	Politics Special SEC	Acquaint students with the important features of the
133	Politics	–III	23103	r ontics special sec	Constitution of India and with the basic framework of Indian
134	Economi	Semester	23153	G -2. Financial System-I	Understand the recent trends and developments in
	CS	–III			banking system.
135	Economi	Semester	23153	G -2. Financial System -I	2. Understand fundamentals of modern financial system.
	CS	<b>–</b> III			
136	B.A	Semester	23151	S -1. Micro Economics -I	1.Develop understanding about subject matter of
	Economi	–III			Economics.
	CS				
137	B.A	Semester	23151	S -1. Micro Economics-I	3. Impart knowledge of Micro economics.
	Economi	-III			
	CS				
138	B.A	Semester	23152	S -2. Macro Economics -I	Introduce the historical background of the
	Economi	<b>–III</b>			emergence of Macro Economics
	CS				

139	B.A	Semester	23152	S -2. Macro Economics-I	4. Familiarize with various concepts of national income
	Economi	<b>–</b> III			·
	cs				
140	B.A	Semester	23154	SEC Basic Concept of Research	Develop the understanding of the basic concept of
	Economi	<b>–</b> III		Methodology -I	research
	cs			J.	
141	B.A	Semester	23154	SEC Basic Concept of Research	5. Identify various sources of information for data collection
	Economi	<b>–</b> III		Methodology -I	
	cs				
142	B.A.	Semester	23161	Politics Special I	1. Understand major traditions of thought that have shaped political
	Politics	<b>–III</b>			discourse in different parts of the world. The great diversity of social
					contexts and
					philosophical visions.
143	B.A.	Semester	23021	Marathi Special Paper I	1. Make aware of the historical tradition of Marathi Literature.
	Marathi				
144	B.A.	Semester	23021	Marathi Special Paper I	1. Aware of Literature on the account of its background and
		-111		· ·	inspiration behind literature and to give knowledge about its nature
145	B.A.	Semester	23022	Marathi Special Paper II	1. Explore the process of development of the types of literature.
	Marathi	-III			
146	B.A.	Semester	23023	S.Y.B.A MarathiGeneral II	1.Introduce the rules and regulations of the 'Shuddhalekhan'.
	Marathi	<b>–III</b>			
147	B.A.	Semester	23023	S.Y.B.A Marathi General II	2. Introduce the rules and regulations of the 'Shuddhalekhan'
	Marathi				
148	B.A.	Semester	23025	Marathi SEC2A	
	Marathi				
149	B.A.	Semester	23001	Compulsory English S.Y.	1.Develop competence for self-learning
	ENGLIS	-III			
	Н				

150	B.A. ENGLIS H	Semester –III	23001	Compulsory English S.Y.	2. Familiarize with excellent pieces of prose and poetry in English so realize the beauty and communicative power of English
151	B.A. ENGLIS H	Semester –III	23333	Optional English G2	1. Expose to the basics of short story as one of the literary forms
152	B.A. ENGLIS H	Semester –III	23333	Optional English G2	2. Familiarize with different types of short stories in English
153	B.A. ENGLIS H	Semester –III	23331	English Special I	Encourage detailed study of a few sample masterpieces of English     Drama from different parts of the     world
154	B.A. ENGLIS H	Semester –III	23331	English Special I	2. Develop to appreciate and analyze drama independently
155	B.A. ENGLIS H	Semester –III	23332	English Special II	1. Familiarize with the terminology in poetry criticism (i.e. the terms used in critical analysis and appreciation of poems)
156	B.A. ENGLISH	Semester –III	23332	English Special II	Make a detailed study of a few sample masterpieces of English poetry
157	B.A. ENGLIS H	Semester –III	23334	English SEC 2A	1. Enhance the skill of using English for everyday communication
158	B.A. ENGLISH	Semester –III	23334	English SEC 2A	Acquaint with the verbal and non-verbal communication
159	B.A.(Geo gr a phy)	Semester –IV	24202	Population Geography-II (S1)	Introduce the Population policy of India and China

160	B.A.(Geo	Semester	24202	Population Geography-II(S-I)	2. Understand the Health indicator in India
	gr `	–IV			
	a phy)				
	B.A.(Geo	Semester		Practical Geography-II(	1. Introduce to the basic and contemporary concept in geography
161	gr a phy)	Competer	24203	Cartographic Tech. surveying &	
		-IV		Excursi.)(S2)	
	B.A.(Geo	Semester		Practical Geography-II(	2. Introduce the latest concept regarding the modern cartography in
162	gr a phy)		24203	Cartographic Tech. surveying	the field of geography
		_i v		& Excursi.)(S2)	
163	B.A.(Geo	Semester	24204	Environmental Geography-II (	1. Acquaint the about the past , present and future
	gr	–IV		G-2)	utility and potentials of natural resources
	a phy)				
164	B.A.(Geo	Semester	24204	Environmental Geography-II ( G-	2. Make aware about the problem of environment its
104	gr a phy)	–IV	24204	2)	utilization and conservation in the view of sustainable development
165	B.A.(Geo	Semester	24207	Applied Course of Travel and	1. Develop basic framework to understand the various
	gr	–IV		Tourism( SEC)	elements of tourism management
	a phy)				
166	B.A.(Geo	Semester	24207	Applied Course of Travel and	2. Evaluate the roll of transport in Travel and Tourism
	gr a phy)	–IV		Tourism( SEC)	industry
167	B.A.(Geo	Semester	352201	Geography of india -I( S3)	1. Understand the inter relationship
	gr a phy)	–IV			between the subject and the Society
	B.A.	Semester			2. Explain the evolution and usage of these concepts, ideas and
168	Politics	-IV	24164	Politics G2	theories with reference to individual thinkers both
	FUILLES	_i v			historically and analytically.
169	B.A.	Semester	24162	Politics Special II	Critically appraise practices of political image
	Politics	–IV			management, campaigns, propaganda and censorship.
	B.A.	Semester			1 Emphasizes on local influences from social stratification of castes,
170	Politics	–IV	24165	Politics Special SEC	from language, religion, ethics and economic determinants and
	r Ulltics	<u> </u>			critically assesses its political processes.

171	B.A Economi cs	Semester –IV	23153	G -2. Financial System-II	1.Understand intricacies of Indian financial system for better financial decision making.
172	B.A Economi cs	Semester –IV	23153	G -2. Financial System -II	2.Get knowledge of various financial and non-financial institutions.
173	B.A Economi cs	Semester –IV	23151	S -1. Micro Economics -II	1.Prepare for varied competitive examinations
174	B.A Economi cs	Semester –IV	23151	S -1. Micro Economics-II	2.Develop an understanding of basic theories of micro economics and their application
175	B.A Economi cs	Semester –IV	23152	S -2. Macro Economics -II	1.Introduce to the various instruments of monetary and fiscal policies
176	B.A Economi cs	Semester –IV	23152	S -2. Macro Economics-II	2.Introduce the role of monetary and fiscal policies in fulfilling the macroeconomic objectives of stability, full employment and growth.
177	B.A Economi cs	Semester –IV	23154	SEC Basic Concept of Research Methodology -II	1. Identify various sources of information for data collection
178	B.A Economi cs	Semester –IV	23154	SEC Basic Concept of Research Methodology -II	2. Develop the understanding of the conducting survey on various issues.
179	B.A. Politics	Semester –IV	24161	Politics Special I	Understand the history of political thought as a series of critical, interconnected and open-ended conversations about the ends and means of the good life.

180	B.A.	Semester	24021	Marathi Special Paper I	2. Understand Literature on the account of its
100	Marathi	-IV	24021	iviaratiii speciai Paper i	background and inspiration behind literature and to give knowledge about its nature
181	B.A.	Semester	24022	Marathi Special Paper II	1. Understand the scope of literature.
	Marathi	–IV			
182	B.A.	Semester	24023	S.Y.B.A General II	3. Explain scope of modern Marathi Literature.
	Marathi	–IV			
183	B.A.	Semester	24023	S.Y.B.A General II	4. Discuss about story, novel, Auto-biography and biography.
	Marathi	–IV			
184	B.A.	Semester	24001	Compulsory English S.Y.	1. Develop interest in reading literary pieces
	ENGLISH	–IV			
	B.A.	Semester			2. Expose to native cultural experiences and situations in order to
185	ENGLIS	-IV	24001	Compulsory English S.Y.	develop human values and social awareness
	Н	_i v			
186	B.A.	Semester	24333	Optional English G2	1. Understand the literary merit, beauty and creative use of
	ENGLISH	–IV			language
	B.A.	Semester			2. Get knowledge of some advanced units of language so that they
187	ENGLIS	–IV	24333	Optional English G2	become aware of the technical aspects and their practical usage
	Н	_i v			
	B.A.	Semester			3. Enhance the aesthetics of Drama and empower to evaluate drama
188	ENGLIS	-IV	24331	English Special I	independently
	Н	_i v			
	B.A.	Semester			4. Familiarize with the terminology in drama criticism (i.e. The term
189	ENGLIS	–IV	24331	English Special I	used in Critical Analysis and Appreciation of drama)
	Н	-  V			
190	B.A.	Semester	24332	English Special II	3. Enhance the aesthetics of poetry
	ENGLISH	–IV			

191	B.A.	Semester	24332	English Special II	4. Read and appreciate poetry as a form of literature
	ENGLIS	–IV			
	Н				
192	B.A.	Semester	34334	English SEC 2B	Develop interest to interact in English
	ENGLISH	–IV			
193	B.A.	Semester	34334	English SEC 2B	2. Access exposure of speaking in Various contexts.
	ENGLIS	–IV			
	Н				
194	B.A.(Geo	Semester –V	352201	Geography of India -I( S3)	3. Understand the recent trends in regional Studies
	gr a phy)				
195	B.A.(Geo	Semester –V	35203	Practical Geography-I (	1. Acquire the knowledge of topo sheet interpretation
	10. ~ P,,			Techniques of Spatial analysis	
196	B.A.(Geo	Semester –V	35203	Practical Geography-I (	2. Acquire the knowledge of weather maps and its interpretation
	8. s. p//			Techniques of Spatial analysis	
197	B.A.(Geo	Semester –V	35205	Geography of Tourism -I G-3	1. Understand the types of tourism
	gr a				
	phy)				
198	B.A.(Geo	Semester –V	35205	Geography of Turism -I G-3	2. Get knowledge of different aspects of tourism
	gr				geography
	a phy)				
199	B.A.(Geo	Semester –V	35206	Reaserch Methodology -I (SEC)	1. Develop the understanding of the basic framework of
	gr				sampling and data collection
	a phy)				
200	B.A.(Geo	Semester –V	35206	Reaserch Methodology -I (SEC)	2. Develop the understanding of various sampling
	gr				methods and techniques
	a phy)				

201	B.A. Politics	Semester –V	35162	Politics Special IV	1. Understand the concepts and dimensions of International Relations and makes an analysis of different theories highlighting the major debates and differences with in the different theoretical paradigms.
1 202 1	B.A. Politics	Semester –V	35162	Politics Special IV	2. Study the changing Nature of the National Power.
203	B.A Economi cs	Semester –V	35153	G3 Indian Economic Developm	Explain the characteristics of Developing and     Developed Countries
204	B.A Economi cs	Semester –V	35153	G3 Indian Economic Developm	2.Recognize the concept and indicators of Economic Development.
205	B.A Economi cs	Semester –V	35151	S3 International Economics-I	Recall the concepts of International Economics and International Trade.
206	B.A Economi cs	Semester –V	35151	S3 International Economics-I	2. Describe and apply the theories of international trade.
207	B.A Economi cs	Semester –V	35152	S4 Public Finance -I	1.Analyze the role of Public Finance in Economic Development.
208	B.A Economi cs	Semester –V	35152	S4 Public Finance -I	2. Understand the sources of Revenue, Expenditure and Debt of Govt. of India.
209	B.A Economi cs	Semester –V	35154	SEC Business Management-I	1. Develop Management of Business.

	B.A			1	2. Develop ability to work in teams at the same time, ability to show
210		Semester –V	35154	SEC Business Management-I	leadership qualities.
	CS			and the second s	reductioning quantities.
	B.A.				3. Understand the scope of the sub-discipline of Modern Political
211	Politics	Semester –V	35163	Politics G3	Analysis.
242	B.A.	C	25464	Baltitas Caractal III	4. Understand the Public Administration
212	Politics	Semester –V	35161	Politics Special III	
213	B.A.	Compostor V	25162	Delities Consid IV	5. Understand the concepts and dimensions of International Relations.
213	Politics	Semester –V	35162	Politics Special IV	
214	B.A.	Semester –V	35021	Marathi Special Paper III	1. Understand the process of origin Literature.
	Marathi				
215	B.A.	Semester –V	35021	Marathi Special Paper III	2. Understand the language of literature.
	Marathi				
216	B.A.	Semester –V	35022	Marathi Special Paper IV	1. Understand language and its scope and nature.
	Marathi				
217	B.A.	Semester –V	35022	Marathi Special Paper IV	2. Understand various angles of study of Marathi Language.
	Marathi				
218	B.A.	Semester –V	35023	T.Y.B.A Marathi General II	1. Discuss about story, novel, Auto-biography and biography.
	Marathi				
219	B.A.	Semester –V	35023	T.Y.B.A Marathi General II	2. Understand importance of auto-biography and biography.
	Marathi				
220	B.A.	Semester –V	35025	Marathi SEC2C (2)	
	Marathi				
221	B.A.	Semester –V	35025	Compulsory English T.Y.	1. Introduce the best uses of language in literature.
	ENGLIS				
	Н				
222	B.A.	Semester –V	35025	Compulsory English T.Y.	2. Familiarize with the communicative power of English
	ENGLIS				
	Н				

223	B.A. ENGLIS	Semester –V	35025	Compulsory English T.Y.	3. Enable to become competent users of English in real life situations
	<u>H</u>		25222		
224	B.A.	Semester –V	35333	Optional English G3	1. Understand how Indian English poetry expresses the
	ENGLIS				ethos and culture of India
	<u>H</u>		25222		
225		Semester –V	35333	Optional English G3	2. Understand creative uses of language in Indian English Poetry
	ENGLIS				
226	<u>H</u>	6	25222	0 .: 15 !:1 00	
226	B.A.	Semester –V	33333	Optional English G3	3. Introduce some advanced areas of language study
	ENGLIS				
227	<u>H</u>	Carra antara NA	35331	Facilish Consist III	4. Familiaria de des hacias ef manal es a lideram ferma
227	B.A.	Semester –V	33331	English Special III	1. Familiarize to the basics of novel as a literary form
	ENGLIS				
220		Samastar V	35331	English Special III	2. Understand the historical development and nature of
220			55551	English Special III	· ·
					novei
229		Semester –V	35331	English Special III	3 Understand different types and aspects of novel
223		Scilicatei V		Linghish Special in	3. Onderstand unreferre types and aspects of nover
230		Semester –V	35332	English Special IV	1. Understand different approaches to literature
		V			
231	B.A.	Semester –V	35332	English Special IV	2. Familiarize to the basics of literary criticism
228 229 230 231	H B.A. ENGLIS H B.A. ENGLIS H B.A. ENGLIS	Semester –V Semester –V Semester –V Semester –V	35331 35332	English Special III  English Special III  English Special IV  English Special IV	2. Understand the historical development and nature of novel  3. Understand different types and aspects of novel  1. Understand different approaches to literature  2. Familiarize to the basics of literary criticism

232	B.A.	Semester –V	35332	English Special IV	3. Understand the nature and historical development of criticism
	ENGLIS				
	Н				
233	B.A.	Semester –V	35334	English SEC 2C	1. Develop overall personality of the students.
	ENGLIS				
	Н				
234	B.A.	Semester –V	35334	English SEC 2C	2. Develop social skills.
	ENGLIS				
	Н				
235	B.A.(Geo	Semester	36201	Geography of India -II( S3)	1. Acquaint with geography of our nation
	gr	–VI			
	a phy)				

236	B.A.(Geo	Semester	36201	Geography of India -II( S3)	2. Understand the magnitude of
	rg	–VI			problems and prospectus at national Level
	raphy)				
				Practical Geography-II (	1. Understand the concept Geographical data and its basic analysis for
237	B.A.(Geo	Semester	36203	Techniques of Spatial analysis,	students
237	gr a phy)	–VI	30203	surveying & Excursi./ Villege/	
				Project Report (S4)	
				Practical Geography-II (	2. Understand the concept of testing and application of hypothesis
238	B.A.(Geo	Semester	36203	Techniques of Spatial analysis,	
238	gr a phy)	–VI	30203	surveying & Excursion./ Village/	
				Project Report (S4)	
239	B.A.(Geo	Semester	36205	Geography of Tourism -II (G-3	1. Understand the history of Tourism
	gr	–VI		)	
	a phy)				

240	B.A.(Geo gr a phy)	Semester –VI	36205	Geography of Tourism -II (G-3 )	Understand the basic concepts in tourism geography
		Semester –VI	36206	Research Methodology -II (SEC)	Identify various Sources of information for data     Collection
	B.A.(Geo gr a phy)	Semester –VI	36206	Research Methodology -II (SEC)	Understand of the Conducting survey on various issues     and develop the report writing skill of student
243	B.A Economi cs	Semester –VI	35153	G3 Indian Economic Developm	1. Describe and explain the process of Economic Planning
244	B.A Economi cs	Semester –VI	35153	G3 Indian Economic Developm	Describe and explain the relation between Economic     Development and Environment.
245	B.A Economi cs	Semester –VI	35151	S3 International Economics-II	1. Explain the concept of Exchange Rate and Foreign Exchange Market.
246	B.A Economi cs	Semester –VI	35151	S3 International Economics-I	2.Understand the trends in Growth, Composition and Direction of India's Foreign Trade.
247	B.A Economi cs	Semester –VI	35152	S4 Public Finance -II	Analyze the concept of Deficit Financing and its effects.
248	B.A Economi cs	Semester –VI	35152	S4 Public Finance -II	2.Understand components and instruments of Fiscal Policy

249	B.A	Semester	35154	SEC Business Management-II	1. Analyze collected data and
	Economi			and the second s	interpret it in the most logical manner
	cs				
250	B.A	Semester	35154	SEC Business Management-II	2.comprehend and illustrate/demonstrate findings
	Economi			and the second s	
	cs				
	B.A.	Semester	0.5.4.60	- III	1 .Understand different forms of justifications of power and the role
251	Politics	–VI	35163	Politics G3	of ideology.
252	B.A.	Semester	25464	Bullitan Constal III	Develop administrative salience and capabilities to deal with
252	Politics	–VI	35161	Politics Special III	process of change.
253	B.A.	Semester	25162	Delities Consider IV	3. Study the Changing Nature of the National Power
253	Politics	–VI	35162	Politics Special IV	
254	B.A.	Semester	25165	Dolities Chariel SEC	5. Understand the historical evolution of Maharashtra's politics and
254	Politics	–VI	35165	Politics Special SEC	different analyses of politics of the state.
255	B.A.	Semester	35021	Marathi Special Paper III	1. Understand the artistic value of literature.
	Marathi	–VI			
256	B.A.	Semester	35021	Marathi Special Paper III	2.Know the co-relation between Literature & Society
	Marathi	–VI			
257	B.A.	Semester	35022	Marathi Special Paper IV	1. Understand the descriptive, Historical and Comparative method,
	Marathi	–VI			scope and difference of language.
258	B.A.	Semester	35022	Marathi Special Paper IV	2. Understand system of Marathi Language.
	Marathi	–VI			
259	B.A.	Semester	35025	Marathi SEC2D (2)	
	Marathi	–VI			
260	B.A.	Semester	36001	Compulsory English T.Y.	1. Develop cultural experiences through literature
	ENGLIS	–VI			
	Н				
261	B.A.	Semester	36001	Compulsory English T.Y.	2. Develop communicative and soft skills
	ENGLISH	–VI			

262	B.A.	Semester	36333	Optional English G3	1. Understand detailed study of literature and language
	ENGLIS	–VI			
	Н				
263	B.A.	Semester	36333	Optional English G3	3. Analyze the best samples of Indian English Poetry
	ENGLIS	–VI			
	Н				
264	B.A.	Semester	36331	English Special III	1. Develop literary sensibility and sense of cultural diversity
	ENGLISH	–VI			
265	B.A.	Semester	36331	English Special III	2.Get knowledge about some of the best examples of novel
	ENGLIS	–VI			
	Н				
266	B.A.	Semester	36331	English Special III	3. Develop skills to critically examine novels independently
	ENGLIS	–VI			
	Н				
267	B.A.	Semester	36332	English Special IV	1. Familiarize with the significant critical approaches and
	ENGLISH				terms
268	B.A.	Semester	36332	English Special IV	2. Interpret literary works in the light of the critical
	ENGLIS	–VI			approaches
	Н		0.000		
269	B.A.	Semester	36332	English Special IV	3. Develop aptitude for critical analysis
	ENGLIS	–VI			
	H		36334	- ".	4 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
270	B.A.	Semester	30334	English SEC 2D	1. Understand interpersonal skills.
	ENGLIS	-VI			
	H		0.000:		
271	B.A.	Semester	36334	English SEC 2D	2. Enhance leadership qualities.
	ENGLISH	I–VI			
272	M.Co	Semester –I	101	Management Accounting	1. Acquire sound Knowledge of concepts, methods and techniques
	m				of management accounting.

273	M.Com	Semester –I	101	Management Accounting	2. Develop competence with their usage in managerial decision
					making and control
274	M.Com	Semester –I	103	Advanced Accounting I	1.Understand foundation of Accounting and Accounting
					Standards.
275	M.Com	Semester –I	103	Advanced Accounting I	2. Solve problems relating to Company Accounts,
					Valuations and special types of situations.
276	M.Com	Semester –I	103	Advanced Accounting I	3. Familiarize the procedure, Practice and
					Regulation of Accountancy
277	M.Com	Semester –I	104	Income Tax II	1.Understand the provisions of Income - tax including Rules
					Pertaining there to, relating to the following topics.
278	M.Com	Semester –I	104	Income Tax II	2. Develop ability to calculate taxable Income of
					'Individual', 'Hindu Undivided Family' and 'Firm' assesses.
					Acquire sound knowledge of concepts, methods and techniques of
279	M.Com	Semester –II	201	Financial Analysis and Control	management accounting
280	M.Com	Semester –II	201	Financial Analysis and Control	Develop competence with their usage in Managerial decision
200		Jernester	201	i manerar i manysis and control	making and control.
281	M.Com		202	Industrial Economics	Understand the basic concepts of Industrial Economics.
282		Semester –II	202	Industrial Economics	Understand the significance and problems of Industrialization.
202	Wi.Com	Semester ii	202	madstrar Economics	2. Orderstand the significance and problems of industrialization.
283	M Com	Semester –II	202	Industrial Economics	2. Understand the impact of Industrialization on Indian
200		Jernester	202	maastriar Eeerierines	Economy.
284	M Com	Semester –II	203	Specialized Areas In Accounting	1.Develop competency of students to solve problems relating
204	IVI.COIII	Scinester II	203	III	Special areas in accounting including accounting for
				""	1.
205	NA Com	Camaatan II	202	Consistent Association	Services Sector.
285	ivi.com	Semester –II	203	Specialized Areas In Accounting	2. Understand of Financial Reporting Practices.
200	N4 C	Carrantin	202		2 Familiaria with manadam of account to factors at a
286	IVI.Com	Semester –II	203	Specialized Areas In	3 .Familiarize with procedure of accounting for Taxation.
				Accounting III	

				Business Tax assessment and	1.Understand of Direct Taxes including Rules Pertaining there to and
287	M Com	Semester –II	204	Planning IV	their application to different
207			20.	i idiiiiig iv	business situations.
288	M Com	Semester –II	204	Business Tax assessment and	2. Understand principles underlying the Service Tax.
200	I WI.COIII	Jennester II	204	Planning IV	2. Officerstand principles underlying the service rax.
289	M Com	Semester –II	204	Business Tax assessment and	3.Understand basic concepts of VAT, Excise Duty and Customs
203	I WI.COIII	Jennester II	204	Planning IV	Duty
290	M Com	Semester	301	Business Finance	1. Develop sound knowledge of concepts, nature and
230	IVI.COIII	-III	301	business i mance	structure of business finance.
291	M.Com	Semester	302	Research Methodology for	1. Understand the areas of Business Research Activities.
291	IVI.COIII		302	1	1. Officerstand the areas of business research Activities.
202	NA Com	-     -	202	Business	2. Enhance conclusion of students to conduct the veccoust
292	M.Com	Semester	302	Research Methodology for	2. Enhance capabilities of students to conduct the research
		-III		Business	in the field of business and social sciences.
293	M.Com	Semester	302	Research Methodology for	3. Develop the most appropriate Methodology for their
		-III		Business	research studies.
294	M.Com	Semester	302	Research Methodology for	4. Familiar with the art of using different research Methods and
		-III		Business	techniques.
295	M.Com	Semester	303	Advanced Auditing V	1. Develop and understand methods of auditing and their
		<b>–</b> III			application.
296	M.Com	Semester	304	Specialized Areas In Auditing VI	1. Develop and Understand methods of audit in Specialized areas.
		<b>–</b> III		,	
297	M.Com	Semester	401	Capital Market and Financial	Acquire sound knowledge, concept and structure of
		–IV		services	capital market and financial services.
298	M.Com	Semester	402	Industrial Economics	1.Understand the basic concepts of Industrial Finance
		<sub>-IV</sub>		Environment	· ·
299	M.Com	Semester	402	Industrial Economics	2. Understand the effects of New Economic Policy.
		l–IV		Environment	
300	M.Com	Semester	402	Industrial Economics	3. Understand the impact of Labor reforms on Industries.
		–IV		Environment	
				I = 11 v ii O i ii i i C i i C	

301	M.Com	Semester –IV	403	Recent Advances In Accounting, Taxation and Auditing VII	Get update with latest developments in the Subject
302	M.Com	Semester –IV	403	Recent Advances In Accounting, Taxation and Auditing VII	2. Inculcate the habit of referring to various periodicals and publications in the given subject, apart from text books and reference
303	M.Com	Semester –IV	403	Recent Advances In Accounting, Taxation and Auditing VII	3.Develop the ability to read, Understand, interpret and summarize various articles from newspapers, journals
304	M.Com	Semester –IV	102	Strategic Management	1: Understand strategic management in framing the policies and administration in adverse condition of the business.
305	M.Com	Semester –IV	103	Advanced accounting	1. Understand the procedure, Practice and Regulation of Accountancy
306	M.Com	Semester –IV	204	Business Tax assessment and planning	1: Understand Taxation procedure policies and regulations are important aspect in business which is core value of the subject.
307	M.Com	Semester –IV	301	Business Finance	1: Understand financial aspects of the Business.
308	M.Com	Semester –IV	202	Industrial Economics	1: Inculcate the Economical aspects related to industries
309	M.Com	Semester –IV	403	Recent Advances in Accounting, Taxation & Auditing.	1. Enable the latest advances in the field of Accounting.
310	M.Com	Semester –IV	401	Capital Market and Financial Services	1. Inculcate the knowledge of raising the capital.
311	M.Com	Semester –IV	404	Project Work	1.Develop analytical mind in the subject
312	BBA[C A]	Semester –I	CA-101	Business Communication	<ol> <li>Understand the role the role of communication in personal and business world.</li> <li>Understand system and communication and their utility</li> <li>Build and maintain relationship facilitate decision making and promotes understanding among employee, customer, supplier.</li> </ol>

	BBA[C	Semester –I	CA-102	Principles of Management	1. Examine how various management principles
313	A]				2. Develop managerial skills among the students.
	,				3. Understand basic concept regarding org. Business Administration.
					1.Learn Decision making, structure, Union & all basics of C
314	BBA[C	Semester –I	CA-	C L anguaga	programming language,
314	A]	Semester –i	103	C Language	2. Explore algorithmic approaches to problem solving.
					3. Develop modular programs using control structures and arrays in 'C'.
					1 Solve real world problems using appropriate set, function, and
	BBA[C		CA-		relational models.
315	A]	Semester –I	104	Database Management System	2 Design E-R Model for given requirements and convert the same into
	Aj		104		database tables.
					3 Use SOL.
					1. Understand role and importance of statistics in various business
316	BBA[C	Semester –I	CA-	Statistics	situations
310	A]	Semester 1	105	Statistics	2. Develop skills related with basic statistical technique
					3. Develop right understanding regarding regression, correlation and
				Computer Laboratory Based on	Students will be able to:
	BBA[C		CA-	103 &104	1 Devise pseudocodes and flowchart for computational problems.
317	A]	Semester –I	106	(2 credits each)	2 Write, debug and execute simple programs in 'C'. 3 Create database
	11		100		tables in Oracles.
					4 Write and execute simple, nested queries. Guidelines
		Semester –I	CA-	Add-On (PPA) (30 Hours)	1. Explore algorithmic approaches to problem solving.
318	A]		107		2. Develop modular programs using control structures and arrays.
					3.Design and analysis of major classes of algorithm.
	_	Semester –II	CA-	Organization Behavior &	1.Understand basic concepts of OB and HRM.
319	A]		201	Human	2. Aware about traditional & modern methods of procurement &
				Resource Management	development in organization.
					3. Know the major trends in HRM & OB

320	BBA[C A]	Semester –II	CA- 202	Financial Accounting	1.Develop right understanding regarding role and importance of monetary and financial transactions in business 2. Cultivate right approach towards classifications of different transactions and their implications 3. Develop proficiency preparation of basic financial as to how to write basis accounting statement - Trading and P&L.
321	BBA[C A]	Semester –II	CA- 203	Business Mathematics	1.Understand role and importance of Mathematics in various business situations and while developing softwares.  2.Develop skills related with basic mathematical technique.
322	BBA[C	Semester –II	CA- 204	Relational Database	Understand relational database concepts and transaction management concepts in database system.      Write PL/SQL programs that use: procedure, function, package, cursor and trigger.
323	BBA[C A]	Semester –II	CA- 205	Web Technology HTML-JS- CSS	<ul><li>1.Know &amp; understand concepts of internet programming.</li><li>2. Understand how to develop web based applications using JavaScript.</li></ul>
324	BBA[C A]	Semester –II	CA-206	Computer Laboratory Based on 204 & 205(2 credits each)	Students will be able to: 1.Practical and Actual working of constructing programs is done by students.
325	BBA[C A]	Semester –II	CA_207	Add-On (Advance C) (30 Hours)	1 Develop modular programs using control structures, pointers, arrays, strings and structures 2 Design and develop solutions to real world problems using C.
326	BBA[C A]	Semester –III	CA-301	Digital Marketing	<ol> <li>Get knowledge about using digital marketing in and as business.</li> <li>Make SWOT analysis, SEO optimization and use of various digital marketing tools.</li> </ol>
327	BBA[C A]	Semester –III	CA-302	Data Structure	<ol> <li>Understand the concepts of ADTs</li> <li>Learn linear data structures – lists, stacks, and queues</li> <li>Understand sorting, searching and hashing algorithms</li> <li>Apply Tree and Graph structures</li> </ol>

					1. Understand System concepts.
328	BBA[C	Semester	CA 202	Saftrana Engineering	2. Understand Software Engineering concepts.
328	A]	–III	CA-303	Software Engineering	3. Understand the applications of Software Engineering concepts and
				, , , , , , , , , , , , , , , , , , ,	Design in Software development.
					1. Understand how server-side programming works on the web.
	BBAIC	Semester	CA-		2. Using PHP built-in functions and creating custom functions
329	A]	-III	304	PHP	3. Understanding POST and GET in form submission.
	Aj		304		4. How to receive and process form submission data.
			r CA- 305 Big data		5. Read and process data in a MvSOL database.
					1. Identify, develop and apply detailed analytical, creative, problem
					solving skills.
330	BBA[C	Semester	CA-	Rio data	2. Provide the learner with a comprehensive platform for career
	A]	<b>–III</b>	305	Dig data	development, innovation and further study.
					3.Develop expert knowledge and analytical skills in current and
					developing areas of analysis statistics, and machine learning
331	BBA[C	Semester	CA-	Computer Laboratory Based on	Students will be able to:
331	A]	<b>–III</b>	306	302, 304 and 305 (2 credits each)	1.Get practical and Actual working of constructing programs.
			307		1. Get an opportunities to acquire the knowledge, values, attitudes,
	BBAIC	Semester	AECC		commitment, and skills
332	A]	-III		Environment Awareness	needed to protect and improve the environment
	Aj				2. Develop conscious towards a cleaner and better
					managed environment
					1. Gain knowledge about Computer Networks concepts.
333	BBA[C	Semester	CA-	Networking	2. Know about working of networking models, addresses, transmission
	A]	–IV	401	Tierworking	medias and connectivity devices.
					3. Acquire information about network security and cryptography.

				Object Oriented Concepts	1. Acquire an understanding of basic object-oriented concepts and the
				Through CPP	issues involved in
334	BBA[C	Semester	CA-		effective class design.
334	A]	-IV	402		2. Write programs using C++ features like operator overloading,
					constructor and destructor, inheritance, polymorphism and exception
					handling
					1. Know the services provided by Operating System
					2. Know the scheduling concept
	RRAIC	Semester	CA-		3. Understand design issues related to memory management and
335	A]	-IV	403	Operating System	various related
	AJ	-iv	403		algorithms.
					4. Understand design issues related to File management and various
					related algorithms
	BBA[C	Semester	CA-		1. Know & understand concepts of internet programming.
336	A]	–IV	404	Advance PHP	2. Understand how server-side programming works on the web.
					3. Understand How to use PHP Framework (Joomla / Druple)
	BBA[C	Semester	CA-	Project	Students will be able to:
337	A]	–IV	405		1. Detailed knowledge about SDLC ,ERD,DFD,Feasibility study,
					Designing Forms, Data Base Connectivity done by students.
	BBA[C	Semester	CA-	Computer Laboratory Based on	Students will be able to:
338	A]	–IV	406	402,404	1.Get practical and Actual working of constructing programs.
				(2 credits each)	
	BBA[C	Semester	CA-	ADD-On (30 Hours) Jquery	1.Learn how to enhance their web application using the JQuery script
339	A]	-IV	407		library.
					2.Jquery can enhance productivity.
					3.Client side data binding techniques.

340	BBA[C A]	Semester –V	CA- 501	Cyber Security	<ol> <li>Have a good understanding of Cyber Security and the Tools.</li> <li>Identify the different types of Cyber Crimes.</li> <li>Have a good understanding of Cyber laws</li> <li>Develop Cyber forensics awareness.</li> </ol>
					5. Identify attacks, security policies and credit card frauds in mobile and Wireless Computing Fra
		Semester –V	CA-	OOSE	1. Students will be able to give Design Specifications for Project.
341	A]		502		2. Students will acquire Knowledge in Basic Modeling.
					Students will acquire Project Management Skills.     Solve real world problems using OOP techniques.
					2. Understand the use of abstract classes.
	BBA[C		G 4 500		3. Solve problems using java collection framework and I/o classes.
342	A]	Semester –V	CA-503	Core Java	4. Develop multithreaded applications with synchronization.
					5. Develop applets for web applications. Able to design GUI based
					applications
					1. Define and demonstrate the use of built-in data structures "lists" and
242	BBA[C	C	CA 504	Dedhe ii	"dictionary".
343	A]	Semester –V	CA-504	Python	2. Design and implement a program to solve a real world problem.
					3. Design and implement GUI application and how to handle exceptions and files.
	BBAſC	Semester –V	CA-505	Project	Students will be able to:
344	A]				1. Get detailed knowledge about SDLC
	,				ERD, DFD, Feasibility study, Designing Forms, Data Base
345	BBA[C	Semester –V	CA-506	Computer Laboratory Based on	Students will be able to:
343	A]	Jennester –v	CA-300	503	Get practical and Actual working of constructing programs.
					Students will be able
246	BBA[C	6	GA 505	111 G 10T(20 II	1. Explain key technologies, smart objects, IoT Architecture and
346	A]	Semester –V	CA_507	Add on Course-IOT(30 Hours)	security in Internet of Things.
	-				2. Illustrate the role of IoT protocols for efficient network
					communication.

				Recent Trends in Information	On completion of the course, student will be able
	BBAIC	Semester	CA-	Technology(Tutorial/Assignm	1. Discuss the basic concepts AI.
347	A]	–VI	601	ent)	2. Apply basic, intermediate and advanced techniques to mine the data.
	71	VI	001		3. Provide an overview of the concept of Spark programming.
					1. Introduced to testing tools.
348	BBA[C	Semester	CA-	Software Testing	· ·
346	A]	–VI	602	Software Testing	2. Acquire Knowledge of Basic SQA.
					3. Design basic Test Cases.
					1. Know the concepts of JDBC Programming.
	BBAſC	Semester	CA-		2. Know the concepts of Multithreading and Socket Programming.
349	A]	–VI	603	Advanced Java	3. Know the concepts of Spring and Hibernate.
	1.		002		4. Develop the project by using JSP and JDBC.
					5. Develop applications in Spring and hibernate.
					1. Use the features of Dot Net Framework along with the features of
					VB, C# and ASP
350	BBA[C	Semester	CA-	Dot Net framework	2. Design and develop window based and web based .NET applications.
330	A]	–VI	604	Dot Net Hamework	3. Design and develop a Website.
					4. Design and Implement database connectivity using ADO.NET for
					VB C# and ASP
	BBA[C	Semester	CA-605	Project	Students will be able to:
351	A]	–VI			1. Get detailed knowledge about SDLC
	1				ERD,DFD,Feasibility study, Designing Forms, Data Base
	BBA[C	Semester		Computer Laboratory Based on	Students will be able to:
352	A]	–VI	CA-606	603 and 604(2 credits each)	1. Get practical and Actual working of constructing programs.
	BBA[C	Semester	CA-607	Add on Course-Soft Skills	Participate to communicate effectively and to carry themselves
	A]	–VI	/	Training	confidently.
353	J	••			2. Learn how to identify and overcome the barriers
					in interpersonal relationships.
	B.Sc(C	Semester –I	CS-111	Problem solving using Computer	Students will be able to:
354	S)		22 111	&	1. Explore algorithmic approaches to problem solving.
	5)			C Programming	2. Develop modular programs using control structures and arrays in
				C FIOGRAMMINE	12. Develop modular programs using control structures and arrays in

	1	ı		Т	
					student will be able to-
	<b>5</b> 4 4 ~				1 Solve real world problems using appropriate set, function, and
355	B.Sc(CS   Seme    356   B.Sc(CS   Seme    357   B.Sc(CS   Seme    358   B.Sc(CS   Seme    359   B.Sc(CS   Seme    360   B.Sc(CS   Seme    360   B.Sc(CS   Seme	Semester –I	CS-112	Database Management system	relational models.
	S)		00 112	Z unus use iriumugement system	2 Design E-R Model for given requirements and convert the same into
					database tables.
					3 Use SOL
					students will be able to:
	B Sc(CS			Practical Course based on CS111	1 Devise pseudocodes and flowchart for computational problems.
356	)	Semester –I	CS-113	and CS112	2 Write, debug and execute simple programs in 'C'. 3 Create database
	,				tables in postgreSQL.
					4 Write and execute simple, nested queries, Guidelines:
					student will be able to:
357	B.Sc(CS	Semester –I	MTC-111	Matrix Algebra	1) Understand translate a liner equation into a matix.
337	)	Scilicater 1	1411 6 111	Widdix / Hgcord	2) Perform certain algorithms, justify why these algorithms work, and
					give some estimates of the running times of these algorithms.
					student will be able to:
	B Sc(CS				1) Solve basic exercises of the type: given a graph with
358	)	Semester –I	MTC-112	Discrete Mathematics	properties X, prove that the graph also has property Y.
	,				2) Develop an appreciation for the literature on the subject and be able
					to read and present results from the literature.
	B Sc(CS		MTC-	Mathematics Practical based on	student will be able to:
359	D.5C(C5)	Semester –I	113	MTC-112 AND MTC 111	1) Write cohesive and comprehensive solutions to exercises and be
	,				able to defend their arguments.
360	B.Sc(CS	Semester –I	ELC-	Semiconductor Devices and Basic	1. Study various types of semiconductor devices
300	)	Jennester –I	111	ElectronicSystems	2. Study elementary electronic circuits and systems
361	B.Sc(CS	Semester –I	ELC-	Principles of Digital Electronic	1. Get familiar with concepts of digital electronics
301	)		112	Timespies of Digital Electronic	2. Learn number systems and their representation
	B.Sc(CS	Semester –I	ELC-	Electronics Lab based on ELC-	1. Understand basic logic gates, Boolean algebra and K- maps
362	)		113	111 and	2. Study arithmetic circuits, combinational circuits and
				ELC-112	sequential circuits

2.52	B.Sc(CS		CSST-		Student will be able to—
363	)	Semester –I	111	Descriptive Statistics	1) Tabulate and make frequency distribution of the given data.
	/				2) Use various graphical and diagrammatic techniques and interpret.
					Student will be able to—
	B.Sc(CS		CSST-		1) Compute various measures of central tendency, dispersion,
364	)	Semester –I	112	Mathematical Statistics	Skewness and kurtosis.
	,		112		2) Fit the Binomial and Poisson distributions.
					3) Compute the measures of attributes.
	B.Sc(CS			Statistics Practical based on	Student will be able to—
365	D.DC(CD	Semester –I	CSST-113	CSST-111	1) Collect data, its condensation and representation for real life data.
	,			and CSST-112	2) Study free statistical softwares and use them for data analysis in
					Student will be able to :-
366	B.Sc(CS	Semester –II	CS-121	Advanced C-Programming	1 Develop modular programs using control structures, pointers, arrays,
] 300	)	Semester ii	CS-121	Advanced C-1 rogramming	strings and structures
					2 Design and develop solutions to real world problems using C.
					Student will be able to—
					1 Design E-R Model for given requirements and convert the same into
367	B.Sc(CS	Semester –II	CS-122	RDBMS	database tables.
307	)	Semester –n	CS-122	RDBMS	2 Use database techniques such as SQL & PL/SQL.
					3 Explain transaction Management in relational database System.
					4 Use advanced database Programming concepts
					Students will be able to:
368	B.Sc(CS	Semester –II	CS-123	Computer Science Lab Course	1 Write, debug and execute programs using advanced features in 'C'.
308	)	Semester -II	CS-125	based on 121 and 122	2 Use SQL & PL/SQL.
					3 Perform advanced database operations

369	B.Sc(CS	Semester –II	MTC- 121	Linear Algebra	A student will be able to:  1. Solve systems of linear equations using multiple methods, including Gaussian elimination and matrix inversion.  2. Carry out matrix operations, including inverses and determinants.  3. Demonstrate understanding of the concepts of vector space and subspace.  4. Demonstrate understanding of linear independence, span, and basis
370	B.Sc(CS	Semester –II	MTC- 122	Graph Theory	<ol> <li>Understand graphs, their properties and their applications as models of networks.</li> <li>Represent almost any physical situation involving discrete objects and a relationship among them.</li> <li>Generate functions and their applications</li> </ol>
371	B.Sc(CS	Semester –II	MTC- 123	Lab Course based on MTC- 121 and MTC 122	The students will be able to:  1. Aware of history of mathematics and hence of its past, present and future role as part of our culture.  2. Gain confidence in proving theorems and solving problems.  3. Understand mathematical formulae or techniques in order to process the information and draw the relevant conclusion.
372	B.Sc(CS	Semester –II	ELC- 121	Instrumentation Systems	Study Instrumentation System     Study various blocks of Instrumentation System     Study Smart Instrumentation System
373	B.Sc(CS	Semester –II	ELC- 122	Basics of Computer Organization	Get familiar digital sequential circuits     Study Basic computer Organization     Study Memory architecture

					1. Study Instrumentation System
					2. Study various blocks of Instrumentation System
274	B.Sc(CS	Semester –II	ELC-	Lab Course based on ELC-121	3. Study Smart Instrumentation System
374	)	Semester –II	123	and ELC-122	4. Get familiar digital sequential circuits
					5. Study Basic computer Organization
					6 Study Memory architecture
	B.Sc(CS	Semester –II	CSST-	Methods of Applied Statistics	Student will be able to:-
375	)		121		1 Understand various regression models and to find best fit.
					2 Understand the Normal distribution.
					Students will be able to
376	B.Sc(CS	Semester –II	CSST-122	Continuous Probability Dist. &	1) Understand the relationship between two variables using scatter plot.
370	)	Semester -m	C551-122	Testing of hypothesis	2) Compute coefficient of correlation, coefficient of regression.
					3) Understand the trend in time series and how to remove it.
					Student will be able to :-
377	B.Sc(CS	Semester –II	CSST-123	and CSST-122	1. Generate model sample from given distributions.
377	)	Semester ii	CDD1 123		2. Understand the importance and functions of different statistical
					organizations in the development of nation.
	B Sc(CS	Semester			1. Use well-organized data structures in solving various problems.
378	)	–III	CS-231	Data structures and Algorithms	2. Differentiate the usage of various structures in problem solution.
	,	_111			3. Implement algorithms to solve problems using appropriate data
					1. Compare and chose a process model for a software project
	B Sc(CS	Semester			development.
379	)	-III	CS-232	software Engineering	2. Identify requirements analyze and prepare models.
	,	""			3. Prepare the SRS, Design document, Project plan of a given software
					system

				D : 10 1 1 00 000	[
				Practical Course based on CS 232	
				and CS 233	1. Understand practical and Actual working of constructing data
	B Sc(CS	Semester			structure programs.
380	)	-III	CS-233		2. Work independently throughout the project work including: problem
	,				identification, information searching, literature study, design and
					analysis, and the final
					renorting
381	B.Sc(CS	Semester	MTC-231	Groups & Coding Theory	1. Study of algorithms, theoretical as well as for concrete calculations,
361	)	–III	W11C-231	Groups & County Theory	for computing with groups.
	R Sc(CS	Semester			Get a relational understanding of mathematical concepts and
382	D.SC(CS	-III	MTC-232	Numerical Techniques	concerned structures, and should be able to follow the patterns
	,				involved, mathematical reasoning.
383	B.Sc(CS	Semester	MTC-233	Mathematics Practical: Python	Expose to global and local concerns that explore them many
363	)	<b>–III</b>	W11C-233	Programming Language	aspects of Mathematical Sciences.
					The student will be able to:
384	B.Sc(CS	Semester	ELC-231	Micro Controller Architecture & Programming	1. Write programs for 8051 microcontroller
304	)	–III	EEC-231		2. Interface I/O peripherals to 8051 microcontroller
					3. Design small microcontroller based projects
					The student will be able to:
					1. Define and explain terminologies of data communication
					2. Understand the impact and limitations of various digital modulation
	R Sc(CS	Semester		Digital Communication &	techniques
385	ט.טכ,כט	-III	ELC-232	Networking	3. Understand the need of spread spectrum schemes.
	,			TOUWOIKING	4. Identify functions of data link layer and network layer while
					accessing communication link
					5. Choose appropriate and advanced techniques to build the computer
					notwork

386	B.Sc(CS	Semester –III	ELC-233	Electronics Lab Practical Course (ELC-233)	The student will be able to:  1. Design and build his/her own microcontroller based projects.  2. Acquire skills of Embedded C programming  3. Know multiplexing and modulation techniques useful in developing wireless application  4. Build and test own network and do settings
387	B.Sc(CS	Semester –III	AECC-I	Environment Awareness-I	The students will be able to:  1.Master core concepts and methods from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions.  2.Appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems. 3.Understand the transnational character of environmental problems and ways of addressing them, including interactions across local to global scales.  4.Apply systems concepts and methodologies to analyze and
388	B.Sc(CS	Semester –III	AECC-II	Language Communication-I	The students will be able to:  1. Understand correct usage of English grammar in writing and speaking.  2. Improve their speaking ability in English both in terms of fluency and comprehensibility.  3. Give oral presentations and receive feedback on their performance.
389	B.Sc(C S)	Semester –IV	CS- 241	Data Structures & Algorithms I	The students will be able to:  1. Implement different data structures efficiently  2. Use well-organized data structures to handle large amount of data  3. Use appropriate data structures for problem solving

					The students will be able to:
					1. Understand of the OSI and TCP/IP Reference Models and in
	B Sc(CS	Semester			particular have a good knowledge of Layers.
390	)	–IV	CS-242	Computer Network-I	2. Understand the working of various protocols.
	,	-1 <b>v</b>			3. Analyze the requirements for a given organizational structure and
					select the most
					annronriate networking architecture and technologies
	B.Sc(CS	Semester	CS-243	Practical Course based on CS 241	The students will be able to:
	)	–IV		and CS 242	Get practical and Actual working of constructing data structure
					programs
					On completion of the course, student will be able to
			ELC-241	Embedded System Design	Understand the difference between general computing and the
					Embedded systems.
		Semester –IV			2. Know the fundamentals of embedded systems.
	B.Sc(CS				3. Understand the use of Single board Computer (Such as Raspberry
391					Pi) for an embedded
331					system application.
					4. Familiar with the programming environment to develop embedded
					systems and their
					interfaces with peripheral devices.
					5. Develop familiarity with tools used to develop in an embedded
					The students will be able to
					1. Know working of wireless technologies such as Mobile
	D Sa(CS	Semester		Wireless Comm. & Internet of	communication, GSM, GPRS
392	D.SC(CS		ELC-242		2. Become familiar with 3G and 4G Cellular Network Technologies
	)	–IV		Things	for Data Connections.
					3. Understand working principles of short range communication
					application
]					1 Get introduce to uncoming technology of Internet of Things

				Practical Course based on and	The students will be able to
	B.Sc(CS	Semester	EL C 242	ELC-241 AND ELC- 242	1. Design and develop own smart applications using Rasberry-Pi
	)	–IV	ELC-243		2. Write Python program for simple applications
	•				3. Build own IoT based system
	B.Sc(CS		MTC-241	Computational Geometry	The students will be able to:
	)	Semester			1. Apply their skills and knowledge, that is, translate information
		–IV			presented verbally into mathematical form, select and use appropriate
		-1 V			mathematical formulae or techniques in order to process the
					information and draw
393	B.Sc(CS	Semester	MTC-242	Operation Research	The students will be able to:
	)	–IV			1.Aware of history of mathematics
					and hence of its past, present and future role as part of our culture.
	B.Sc(CS		MTC-243	Practical Course based on MTC-	The students will be able to:
	)	Semester		241 and MTC-242	1. Apply their skills and knowledge, that is, translate information
394		–IV			presented verbally into mathematical form, select and use appropriate
		-1 <b>V</b>			mathematical formulae or techniques in order to process the
					information and draw
	B.Sc(CS	Semester	AECC-I	Environmental Awareness-II	The students will be able to:
395	)	–IV			1.Develop critical-thinking skills, analyze real-world problems, and
					understand the power of narrative to create sustainable
					solutions for local and global communities.
					The students will be able to:
	B.Sc(CS	Semester			1.Improve their reading fluency skills through extensive reading
396	)	–IV	AECC-II	Language Communication –II	2.Enlarge their vocabulary by keeping a vocabulary journal
	,				3. Write academic papers, essays and summaries using the
					process approach.

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				Practical course based on CS 353	The students will be able to:
				and CS 354	1.Design dynamic and interactive Web pages.
	B.Sc(CS			and CS 334	, ,
402	D.SC(CS	Semester –V	CS-358		2.Learn Core-PHP, Server Side Scripting Language 3.Learn PHP-
	)				Database handling
					4. Apply statistical, data preprocessing and visualization
					techniques on data sets
				Object Oriented Programming	The students will be able to:
	B.Sc(CS			using Java-I	1.Learn Object Oriented Programming language
403	D.BC(CB	Semester –V	CS-355		2. Study various java programming concept like Interface, File and
	,				Exception Handling etc.
					3.Design User Interface using Swing and AWT
404	B.Sc(CS	Semester –V	CS-356	Theoretical Computer Science	The students will be able to:
	)			_	1.Understand the use of automata during language design. 2.Relate
					various automata and Languages.
					The students will be able to:
					1. Use an integrated development environment to write, compile, run,
					and test simple
405	B.Sc(CS	C	GG 250		object-oriented Java programs.
405	)	Semester –V	CS-359	Practical Course based on CS 3	2. Read and make elementary modifications to Java programs that
					solve real-world
					problems.
					3 Validate input in a Java program
					The students will be able to:
					1. Introduce programming concepts using python
406	B.Sc(CS	Semester –V	CS-3510	Python Programming	2. Develop Programming logic using python
.00	)	Jennester V	CB 3310		
					3. Develop basic concepts and terminology of python programming
					4. Test and execute python programs

		1			
					The students will be able to:
					1. Understand what and why of blockchain technology.
	B.Sc(CS				2. Explore major components of blockchain.
407	)	Semester –V	CS-3511	Blockchain Technology	3. Learn about Bitcoin, Cryptocurrency and Ethereum.
	,				4. Learn blockchain programming using Python, Flask Web
					Framework, and HTTP client
					Postman
	B.Sc(C		CS-	Operating Systems – II	The students will be able to:
	S)	Semester	361		1. Understand the issue of Deadlocks in Process management.
408		–VI			2. Understand the concept of File system management & disk
		VI			scheduling
					3. Study the concept of distributed and mobile operating
					The students will be able to:
	B Sc(CS	Semester			1. Understand various software testing methods and strategies.
					2. Understand a variety of software metrics, and identify defects and
409	)	–VI	CS-362	Software Testing	managing those defects for improvement in quality for given software
	,	VI			3. Design test cases and test plans, review reports of testing for
					qualitative
					Software
410	B.Sc(CS	Semester	CS-367	Practical course based on CS 36	The students will be able to:
	)	–VI			1. Understand Management of deadlocks by operating system, File
					System management, Disk space management
					and scheduling for processes
					The students will be able to:
					1. Learn different technologies used at client Side Scripting Language
411	B.Sc(CS	Semester	CS-363	Web Technologies – II	and XML and XML parsers.
	)	–VI	CD-303	Tree recimologies in	2. PHP framework for effective design of web pages.
					3. Learn Java Script to program the behavior of web pages.
					4 Learn AIAX to make our application more dynamic

				1	The state of the s
					The students will be able to:
					1. Use appropriate models of analysis, assess the quality of input, and
					derive insight from
					results.
		_			2. Analyze data, choose relevant models and algorithms for respective
412	B.Sc(CS	Semester	CS-364	Data Analytics	applications
	)	–VI	00 00.		3.Understand different data mining techniques like classification,
					prediction, clustering
					and association rule mining
					4. Apply modeling and data analysis techniques to the solution of real
					world business
	D 0 (00	_	GG 260	D	11
	B.Sc(CS	Semester	CS-368	Practical course based on CS 36	The students will be able to:
413	)	–VI			1. Build dynamic website.
					2.Use MVC based framework easy to design and handling the errors in
					dvnamic website.
		_			The students will be able to:
414	B.Sc(CS	Semester	CS-365	Object Oriented Programming	1. Learn database programming using Java
	)	–VI			2.Study web development concept using Servlet and JSP 3.Develop a
					game application using multithreading 4.Learn socket programming
415	-	Semester	CS-	Compiler Construction	The students will be able to:
	S)	–VI	366		1.Understand the process of scanning and parsing of source code.
					2. Learn the conversion code written in source language to
					machine language. 3.Understand tools like LEX and YACC
	B.Sc(CS		CS-	Practical Course based on CS 3	The students will be able to:
	)	Semester	369		1. Learn database Programming using Java
416		–VI			2. Understand and create dynamic web pages using Servlets and JSP.
					3. Work with basics of framework to develop secure web
					applications

		1		I	
					The students will be able to:
					1.Understand various software testing methods and strategies.
					2.Understand a variety of software metrics and identify defects and
417	B.Sc(CS	Semester	CS-	Software Testing Tools	managing
1 .1,	)	–VI	3610	Bottware resumg rooms	those defects for improvement in quality for given software.
					3. Design test cases and test plans, review reports of testing for
					qualitative software.
					1 Understand latest testing tools used in the software industries
	B.Sc(CS	Semester	CS-	Project	The students will be able to:
418	)	–VI	3611		1. Work independently throughout the project work including: problem
110					identification, information searching, literature study, design and
					analysis.
	B.		MB- 351	Medical Microbioloy- I	The students will be able to:
	Sc.				Learn about different bacterial pathogens,
					epidemiology, and diseases of human body systems.
	B.		MB- 352	Immunology – I	The students will be able to:
	Sc.				Learn all the basic concepts about immunity, blood cell formation, and
					different organs in immunity. They gain knowledge of 3 lines of
					body's defence. They thoroughly understand about Antigens and
					Antibodies; They gain knowledge about Cell Mediated Immune
					Response
421	B.		MB-353	Enzymology	The students will be able to:
	Sc.				Understand about enzymes, enzyme assays, they gain
					knowledge about methods of purification of enzymes, Students
					studies about enzyme kinetics and calculate Vmax,Km,Kcat
					values, They are able to tell different methods of enzyme
					immobilization

422	B.SC	MB- 354	Genetics	The students will be able to:
				Get knowledge of Gene Linkage and crossing over, DNA Replication,
				Prokaryotic and Eukaryotic Transcription and Translation,
				Techniques used in recombinant DNA
				technology.
		MB- 355	Fermentation Technology – I	The students will be able to:
				Learn about objectives and applications of industrial fermentation
423	B.SC			process, They learn basic steps like Media optimization, Sterilization,
				Scale-up and Scale-down.
				Students learn about economics of fermentation, test of OA and OC.
424	B.SC	MB-356	Agriculture Microbiology	The students will be able to:
				Learn about objectives and applications of Agriculture microbiology.
				They learn about role of soil micro-organisms
				in agriculture. Students gain knowledge of Agriculture Technology
425	B.SC	MB- 3511	Dairy Microbiology	The students will be able to:
				learn about dairy developments in India.
				Understand milk chemistry and microbiology, learn about spoilage of
				milk and milk preservation methods, milk born infections.
				Student come to know about techniques of Pasteurization and milk
				analysis
		MB-3510	Marine microbiology	Get awareness of unseen and unexplored niche of marine ecosystem of
				microbes. Acquire advances in the knowledge of marine microbes and
				marine ecology. Learn the field research on marine processes and
	B.SC			laboratory research on microorganisms. To comprehend the role of
				marine microbes in bioremediation and bioprospecting. Avail career
				opportunities in
				marine education, industry and research

427	BS.C	MB- 357	Practical course – I Based on	The students will be able to:
			MB- 351 MB-	Isolate and identify pathogens from clinical samples.
			352	Perform hematology and hemogram analysis. Perform
				epidemiological surveys.
		MB- 358	Practical course – II Based on	The students will be able to:
			MB-353	Learn clinical biochemistry experiments.
			MB-354	Analyze proteins and carbohydrates qualitatively
428	BS.C			
420	D3.C			3. Make buffers, study enzyme kinetics and calculate Vmax, Km,
				Kcat values.
				4. Make buffers, isolate genomic DNA, Plasmid DNA, could perform
				gelelectrophoresis.
		MB- 359	Practical course - III Based on	The students will be able to:
			MB- 355 MB-	1. Perform biochemical assays for vitamin andantibiotic,
429	BS.C		356	2. Cultivate lactic acid bacteria, Bio- inoculants, Pesticide degrader.
				3. Learn different milk test.
				4. Synthesize nanoparticles.
430	B.SC	MB- 361	Medical Microbiology – II	The students will be able to:
				learn about chemotherapy, antibiotic resistance, and viral, fungal and
				protozoan pathogens.
431	B.SC	MB- 362	Immunology-II	The students will be able to:
431	B.SC			learn about Humoral immune response, Cell mediated
				immune response ,Hypersensitivity ,Autoimmunity , Autoimmune
				disease, Immunodeficiency
		MB- 363	Metabolism	The students will be able to:
				Learn about Membrane transport mechanisms, Bioenergetics and laws
432	B.SC			of thermodynamics, understand Biosynthesis and Degradation of
				macromolecules.
				Understand photosynthesis process in bacteria.

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433	B.SC	MB- 364	Molecular Biology	The students will be able to:
				Get knowledge of methods of gene transfer by transformation,
				transduction and conjugation.
				Understand how to generate rDNA molecule, They can learn about
				important tools
				used in rDNA technology
434	B.SC	MB- 365	Fermentation Technology - II	The students will be able to:
				Learn about commercial scale productions of various products like:
				Primary Metabolites, Secondary metabolites, Enzymes, Biomass based
				products, Vaccines, Immune sera, Student can able to distinguish
				between Solid
		MB- 366	Food Microbiology	The students will be able to:
				Describe food safety problems and solutions in India and global scale.
				Identify and classify types of microorganisms in food processing and
435	B.SC			compare their Characteristics and behavior to learn food classification
				based on their perishability, intrinsic and extrinsic factors affecting the
				growth of microbes in foods, role of microorganisms in
				food fermentation
		MB-3610	Waste management	The students will be able to:
436	B.SC			Understand waste management and it practicable applicability.
430	D.SC			Assess the magnitude and influence of hazardous content of
				waste, pollution of waters and waste water treatment technologies.
				Learn the design and working of treatment plants and methods used for
				liquid and solid waste treatment.

			MB-3611	Nano-biotechnology	The students will be able to:
					Understand design, development and application of Nanomaterials and
					their application in, nano devices. To learn fundamentals of
	B.SC				nanotechnology as to Synthesis and characterization techniques of
					nanoparticles. Acquire knowledge of applications of nano-materials
					in different disciplines of human life. Compare the merits of using
					nanotechnology with existing technologies
			MB-367	Practical course I Based on	The students will be able to:
				Diagnostic Microbiology and	Study about microbial pathogens by using permanent slides. Isolation
438	B.SC			Immunology	of yeast/Fungal pathogen,Antibiotic sensitivity testing of the bacterial
436	D.SC				pathogens: The qualitative diagnosis of Plasmodium spps.,
					Demonstrations of: Serum protein separation by electrophoresis,
					ELISA (Antigen/ Antibody detection) Egg inoculation technique
			MB 368	Practical Course – II	The students will be able to:
439	B.SC			Based on	Obtain knowledge about clinical biochemistry experiments along with
433	D.3C			Metabolism and Molecular	enzyme production, purification quantification, immobilization
				Biology	Bacteriophage.
440	B.SC		MB 369	Practical Course-III Based on	The students will be able to:
				Fermentation Technology- II and	Know about fermentation at laboratory level.
				Food Microbiology	Solid state fermentation, Probiotic micro flora,
					Aflatoxin, TDP and TDT value, Determination of TDR and D
					Value
					HACCP guidelines for food industry
441	M.Sc	Semester –I	MB 501	Microbial systematics	The students will be able to:
					Get idea about microbial classification.
442	M.Sc	Semester –I	Mb 502	Quantitative biology	The students will be able to:
					Get knowledge about quantitative analysis of the survey. report and
					the data collected, comparative account
					of the data.

443	M.Sc	Semester –I	MB 503	Biochemistry and Metabolism	The students will be able to:
				_	Understand Metabolism of proteins, lipids
					and carbohydrates. Catabolism and anabolism of all the three
					biomolecules
444	M.Sc	Semester –I	MBTE 11	Fungal systematics and Extr	The students will be able to:
					Get Knowledge about fungal classification. As well as idea
					about the extreme conditions like temp , pH
					,moisture
					where the microorganisms can grow.
445	M.Sc	Semester –I	MBPE11	Practical based on Fungal sy	The students will be able to:
					Understand Specific media for the growth of Fungi, and
					extremophiles. Focussing the keys of the isolation and
					identification of fungi and extremophiles
446	M.Sc	Semester –I	MBCP 1	Biochemical techniques (	The students will be able to:
				Practical based on	Do practical based on Buffer preparation, Role of buffer in
				Complusory theory credits)	media preparation, Different techniques like
					U.V. Spectrophotometry, electrophoresis,
					chromatographyetc.
447	M.Sc	Semester –II	MB 601	Instrumentation and biophys	The students will be able to:
					Understand principle and techniques like different types of
					chromatography, Electrophoresis, HPLC,Colorimetry
					.U. V. Spectrometry etc.
448	M.Sc	Semester –II	Mb 602	Molecular Biology	The students will be able to:
					Understand methods of transcription and translations in
					prokaryotes and eukaryotes etc. Cell division and cell
					cycle controlby CDK Cyclins etc'

			MB 603	Enzymology ,Bioenergetics	The students will be able to:
				and Metabolism	Understand Thermodynamics, Enzymes classification, Isolation
449	M.Sc	  Semester –II			and purification methods along with that specific activity,
143	101.50	Semester -II			enzyme activity calculations. Study of intermittent metabolic
					products produced during
					metabolism
			MBTE 23	Nitrogen metabolism ,	The students will be able to:
				respiration and photosynthesis	Study in detail about Nitrogen cycle, isolation and identification
450	M.Sc	Semester –II			of Nitrogen fixing and nitrogen nonfixing bacteria. Along with
430	101.50	Semester II			that photosynthesis mechanism in different types of plants, C3
					and C4 pathways, CAM
					pathwavs etc
451	M.Sc	Semester –II	MBPE23	Practical based on Nitrogen	The students will be able to:
				metabolism, respiration and	Do preparation of selective media for the isolation and
				photosynthesis	identification of symbiotic and nonsymbotic
					bacteria , their confirmation, cell division steps etc.
452	M.Sc	Semester –II	MBCP 2	Molecular biology,	The students will be able to:
				Enzymology and	<b>Do</b> practicals related to plasmid DNA extraction, Genomic DNA
				instrumentation techniques (	extraction, Transformation, Plasmid curing, Restriction
				Practical based on	endonuclease.
				Complusory theory credits)	Calculate enzyme activity and specific activity of an enzyme,
					their purification
					methods.
453	M.Sc	Semester	MB 701	Immunology	The students will be able to:
		<b>–III</b>			Get knowledge about Immune system mechanism, how the
					immune system acts against tumor and cancer cell,what are
					biological response modifiers.etc

454	M.Sc	Semester	Mb 702	Molecular Biology	The students will be able to:
		<b> </b> -III			Understand Genetics behind cancer and Tumours . Various test
					to check the gene sequences, hereditary transferring diseases
					etc. , Chromosomal
					laberrations.
455	M.Sc	Semester	MB 703	Clinical Microbiology	The students will be able to:
		-111			Know Different types of diseases caused by bacteria, fungi,
					viruses, their habitat, multiplication rate, symptoms, Laboratory
					diagnosis, antibiotic sensitivity testing and
					prophylaxis etc.
456	M.Sc	Semester	MBTE 31	Cell culture techniques	The students will be able to:
		<b>–III</b>			Understand what are cell line, continues cell lines, cell cultures
					specificities of different cell lines meaning of Established cell
					line, suspension culture. And their use
					for identification of specific cancer.
457	M.Sc	Semester	MBPE 31	Practical based on cell culture	The students will be able to:
		<b>–III</b>		technique	Know specific media for the preparation cell line and
					cell culture, role of each and every content in the medium
458	M.Sc	Semester	MBCP 3	( Practical based on	Identify isolation of various pathogenic organism. Precipitation
		<b>–III</b>		Compulsory theory credits)	and agglutination. Qualitative and quantitative analysis of
					Antigen and Antibody etc.
459	M.Sc	Semester	MB 801	Pharmaceutical Microbiology	The students will be able to:
		–IV			Understand What are anti-infective their mode of action, method
					to check susceptibility and resistance. Meaning of MIC , MBC .
					NCCS Norms in pharmacy,
					CLSI auidelines etc
460	M.Sc	Semester	Mb 802	Microbiology technology	The students will be able to:
		–IV			Use different methodsin fermentation industry- Batch
					fermentation, Continuous fermentation. Fed batch
					fermentation. Important parts used in fermenter.

461	M.Sc	Semester –IV	MBTE 41	Quality assurance and validation in pharmaceutical industry and Development of Anti-infectives.	The students will be able to: Understand the role of quality department in pharmaceutical industry, Meaning of calibration and Validation of specific instrument. What is Standard Operating System
462	M.Sc	Semester –IV	MBPE41	Practical based on Quality assurance and validation in pharmaceutical industry and Development of Anti-infectives.	The students will be able to: Use S.O.P. methods of various instruments like incubator, Hot air oven, Auto clave. Calculate MIC and MBC value of specific anti-infective. Antibiotic susceptibility testing. Reasons For antibiotic resist stance.
463	M.Sc	Semester –IV	MBTE 42	Advances in Microbial techn	The students will be able to:  Do testing of MIC and MBC, use different methods to check antibiotic resistance, Buffer preparation, Media preparation, preparation of dilution scheme according to CLSI guidelines etc.
464	M.Sc	Semester –IV	MBCP 4	Dissertation	The students will be able to:  Do research project ,get the knowledge about proper research paper ,related topic, apply statistical analysis by ANNOVA or T test, prepare final thesis etc.